FISHERIES STATISTICS OF JAPAN 1978

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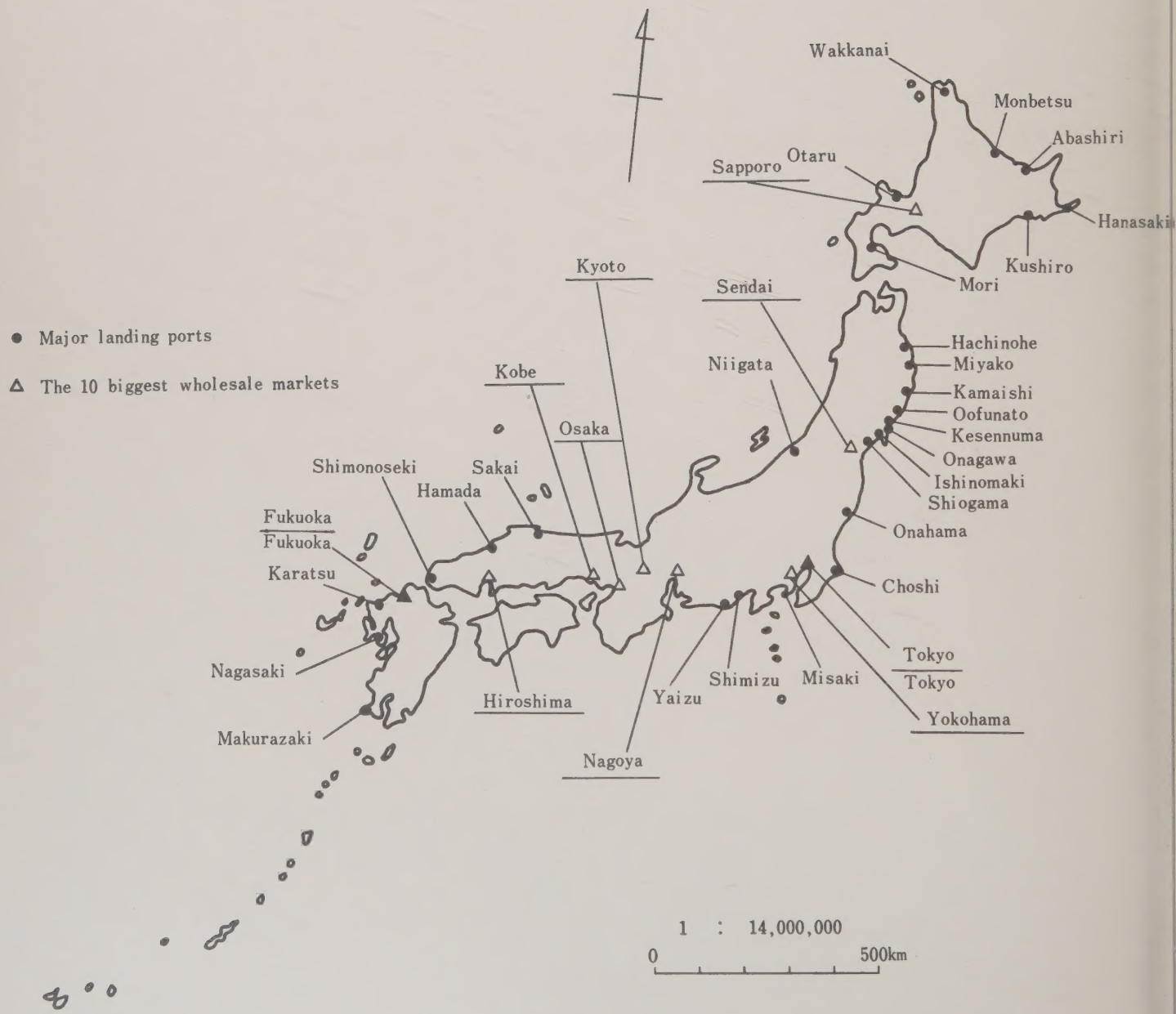

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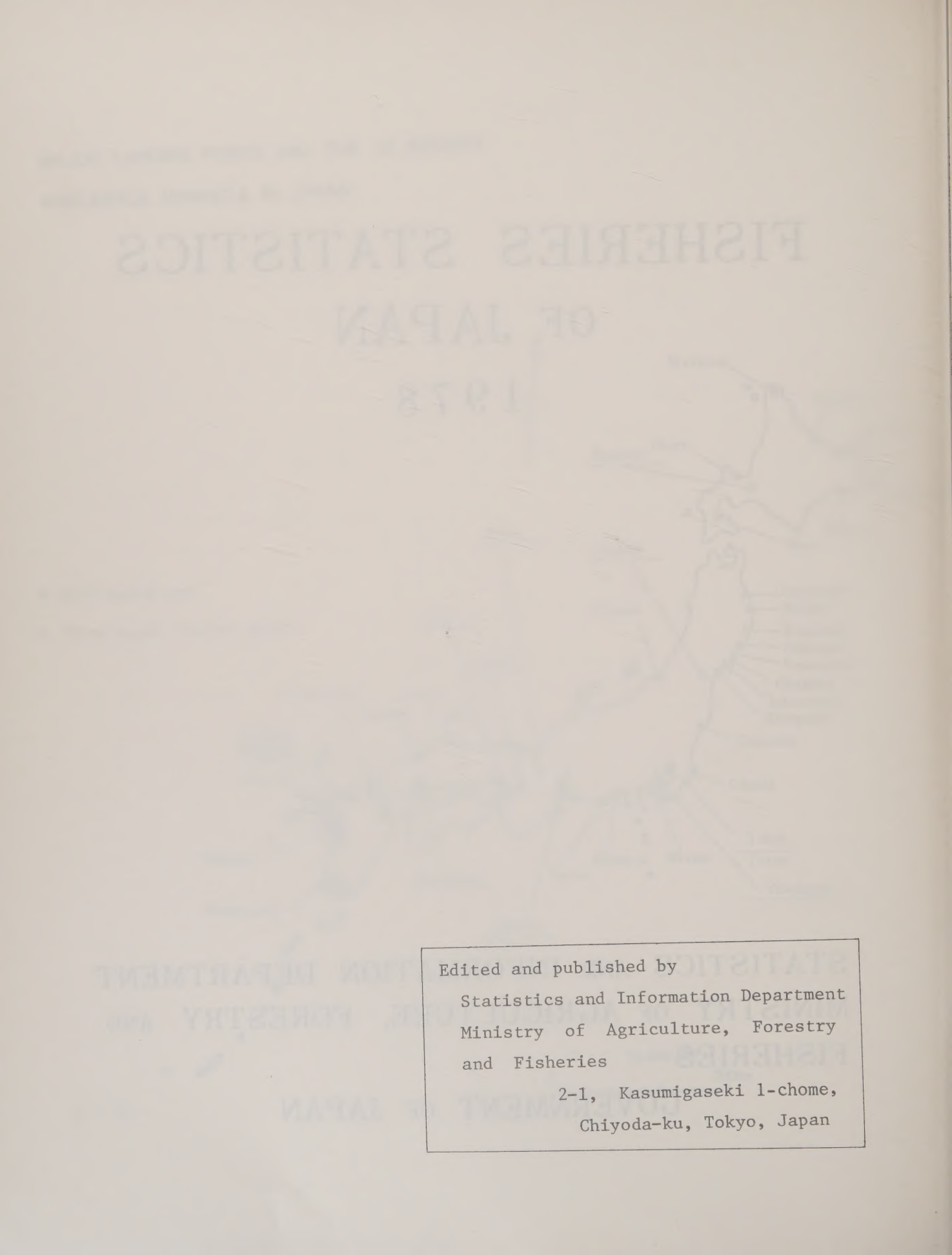

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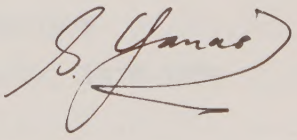
FOREWORD

The bulletin "Fisheries Statistics of Japan" has been published yearly since 1963 to show the outline of the current fishery situation of Japan. It contains major statistical tables on fishery production, structure, marketing and economy.

Japan traditionally depends much upon marine living resources for its animal protein, and it is generally forecasted that this situation will not be changed largely in the future. The total catch of Japan has been maintained the level over ten million metric tons yearly since 1972, but now Japanese fisheries operate under such a severe circumstances of the "200 Mile Fishing Zone" which had been established in 1976 or so by countries concerned. On the other hand, the effective utilization of fisheries resources in the waters around Japan is becoming important for Japanese fisheries.

We hope, under these conditions, this bulletin would benefit for readers to understand the situation of the current Japanese fishery. We would much appreciate if readers could provide us any suggestion to improve the bulletin.

May, 1980



SHOJI YANAI

Director

Statistics and Information Department

Ministry of Agriculture, Forestry and Fisheries

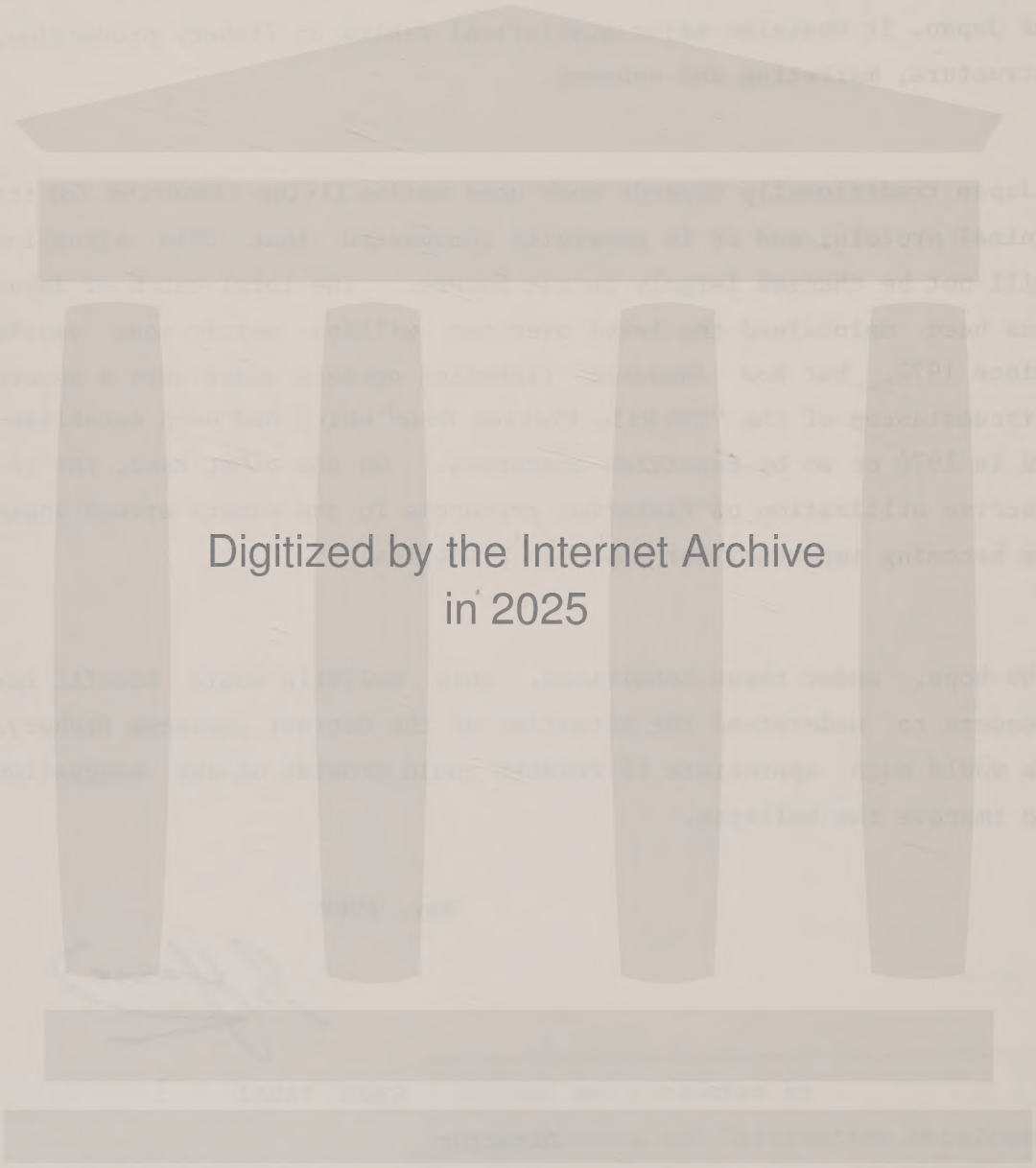


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Table No.I-1 ~ 8, II-1,2	Statistics and Information Department
III-1 ~ 4, 9, 10	Ministry of Agriculture, Forestry and
IV-1, 2	Fisheries
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Table No. III-5 ~ 7	Bureau of Customs, Ministry of Finance
Table No. III-8	Minister's Secretariat Ministry of Agriculture, Forestry and Fisheries
Table No. III-9,10	Bureau of Statistics Office of the Prime Minister
Reference Table 1, 2	F. A. O.

2 Period of inquisition

As a principle, the statistics in this bulletin are inquired by the calender year but the figures of the whaling in the Antarctic Ocean are given for the "Whaling year" (from Nov. 1977 to Mar. 1978)

3 Symbols

The following symbols are used in this publication:

[0] means "Less than the unit amount"

[---] means "Unknown or not available"

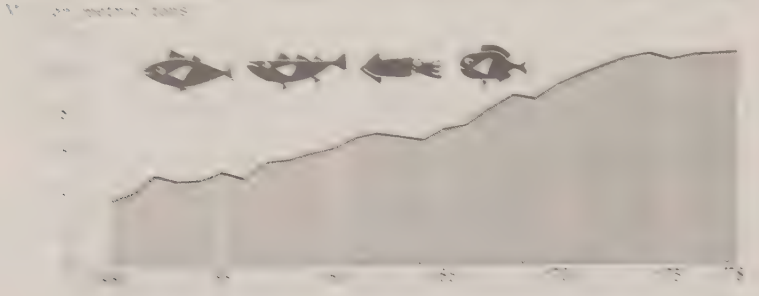
[-] means "No record"

[Δ] means "Minus"

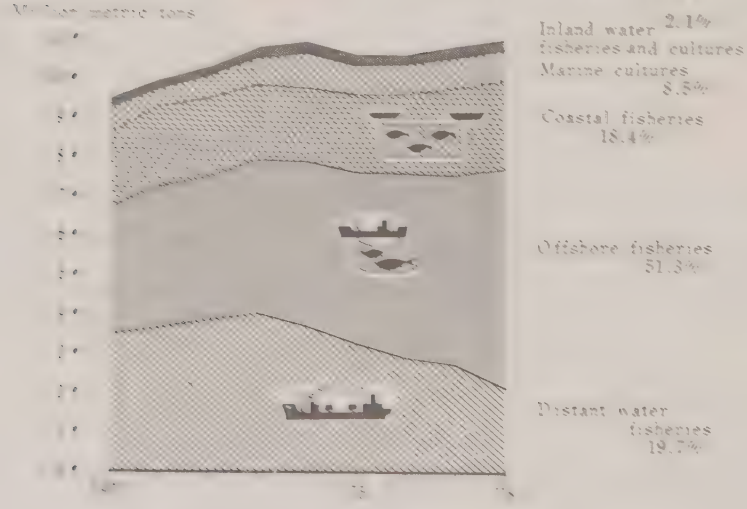
STATISTICAL CHARTS

I FISHERIES PRODUCTION

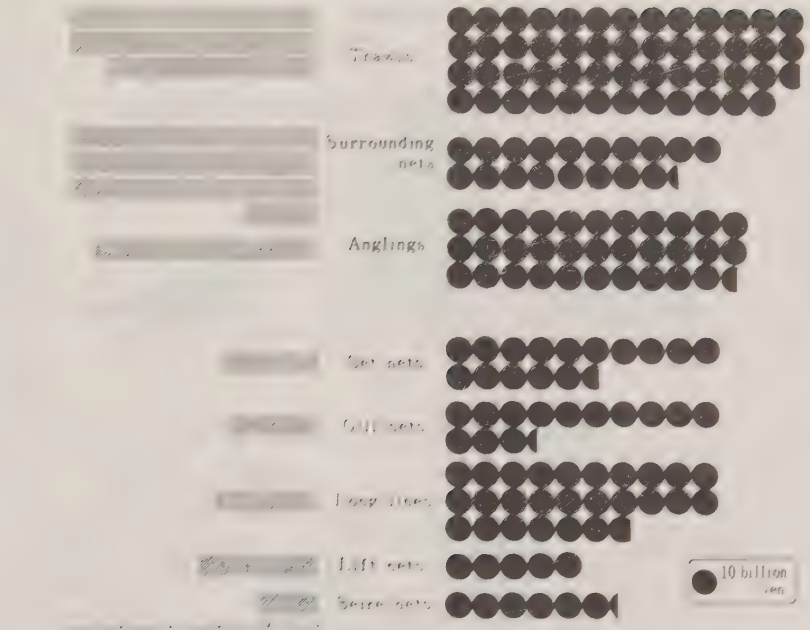
1 Annual Trend of Total Catch, 1950～1978



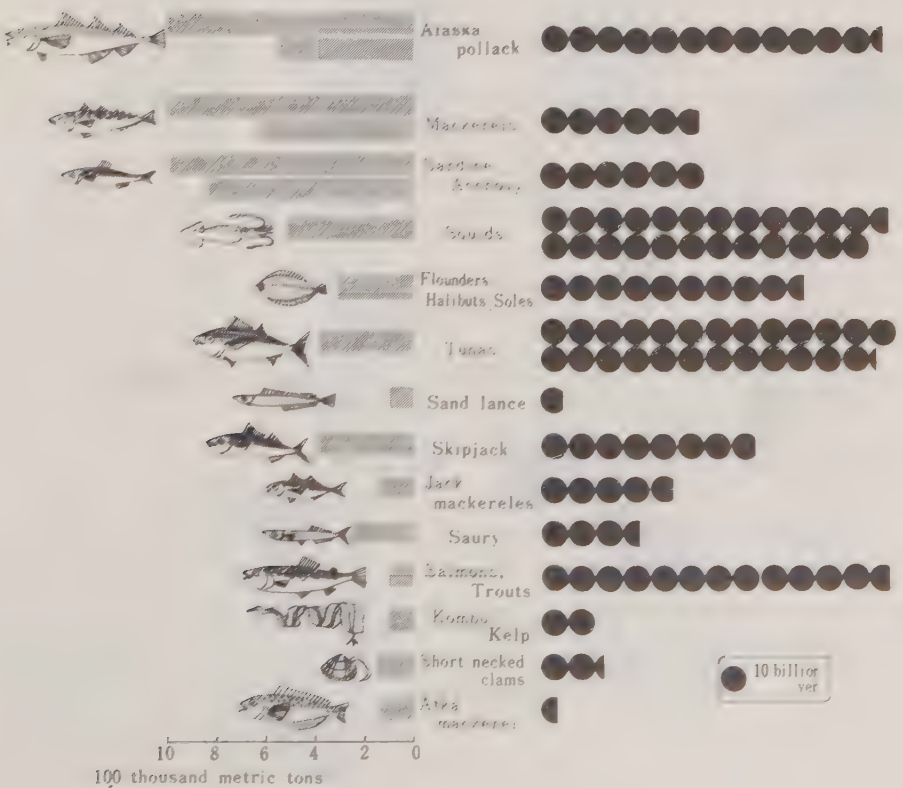
2 Total Catch by Type of Fisheries, 1970～1978



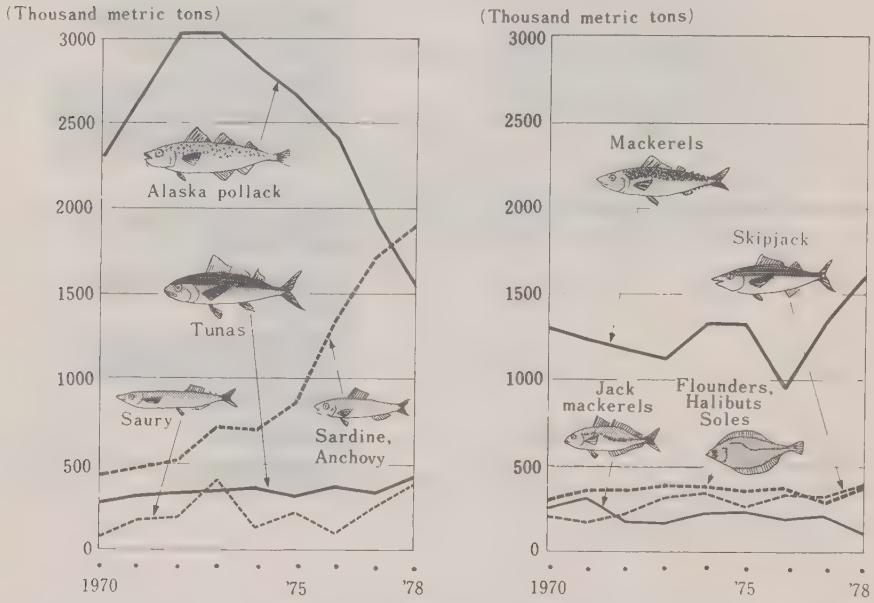
3 Catch by Type of Fishery, 1978



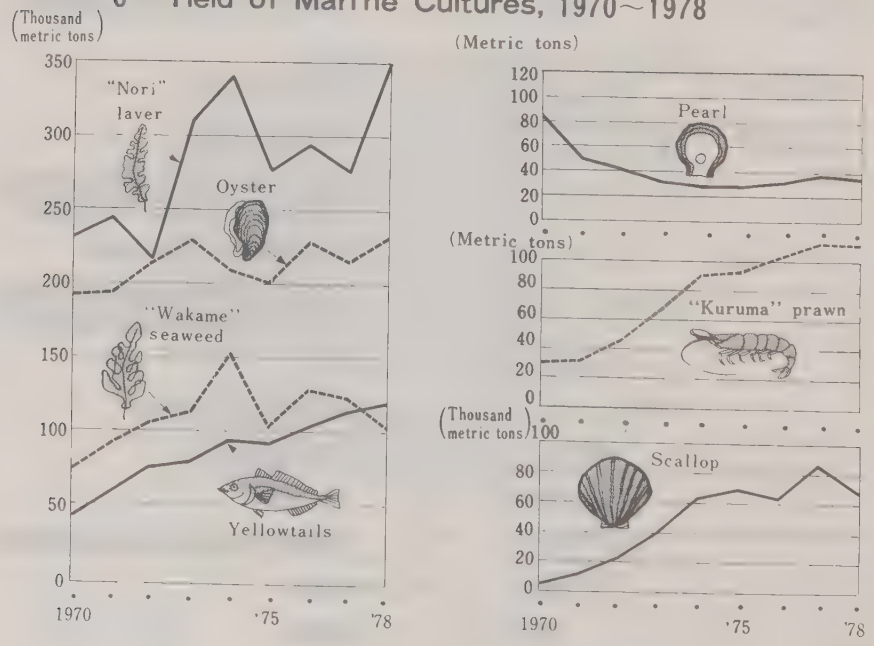
4 Catch by Major Fish, 1978



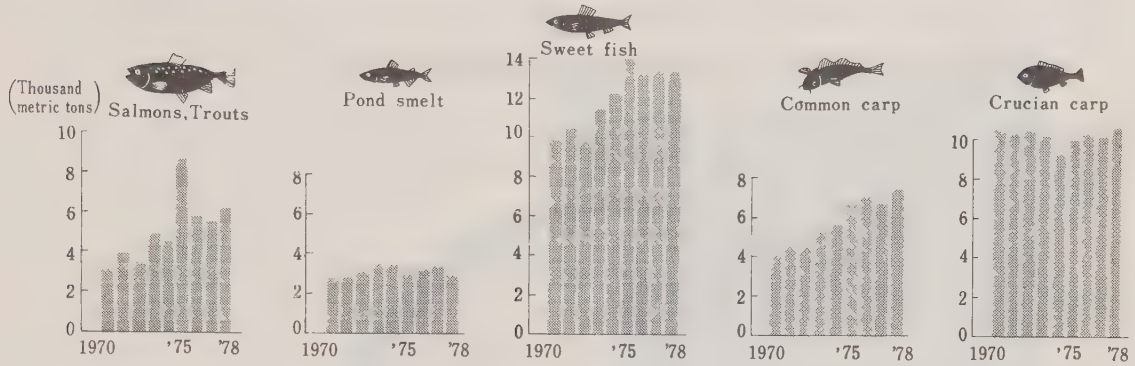
5 Catch by Major Fish, 1970～1978



6 Yield of Marine Cultures, 1970～1978



7 Catch of Major Inland Water Fish, 1970～1978



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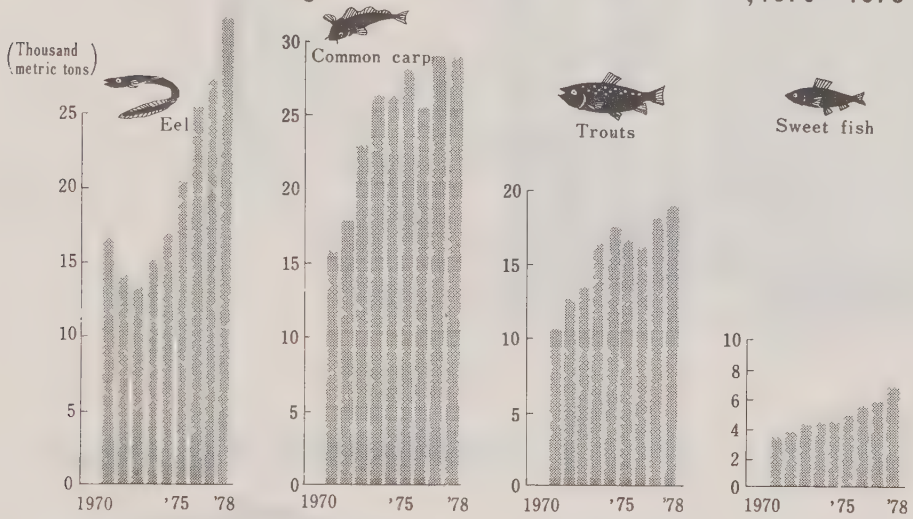

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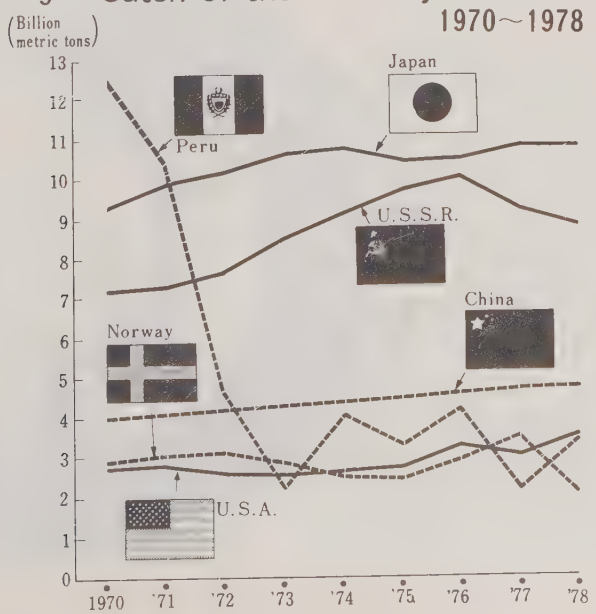
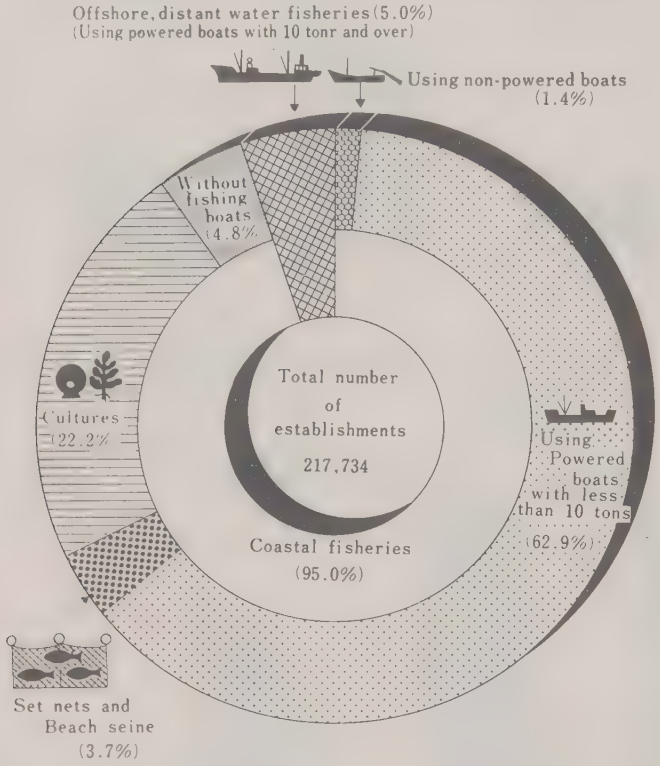
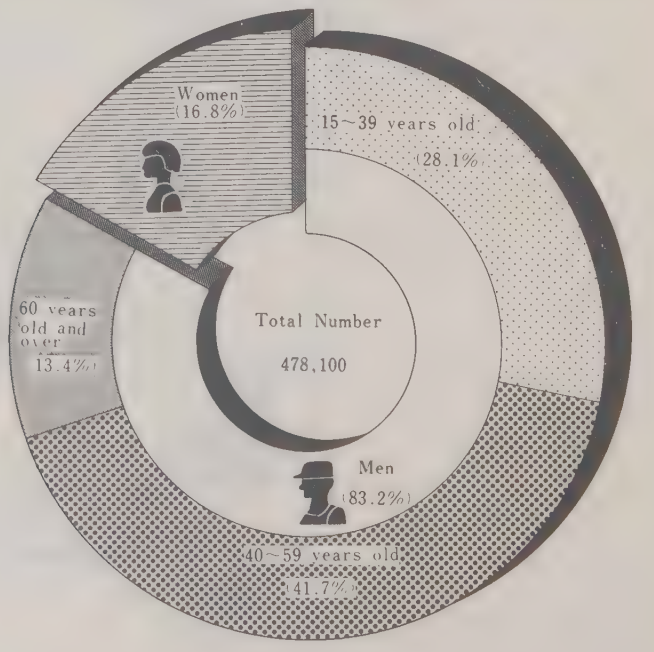


II STRUCTURE OF FISHERY PRODUCTION

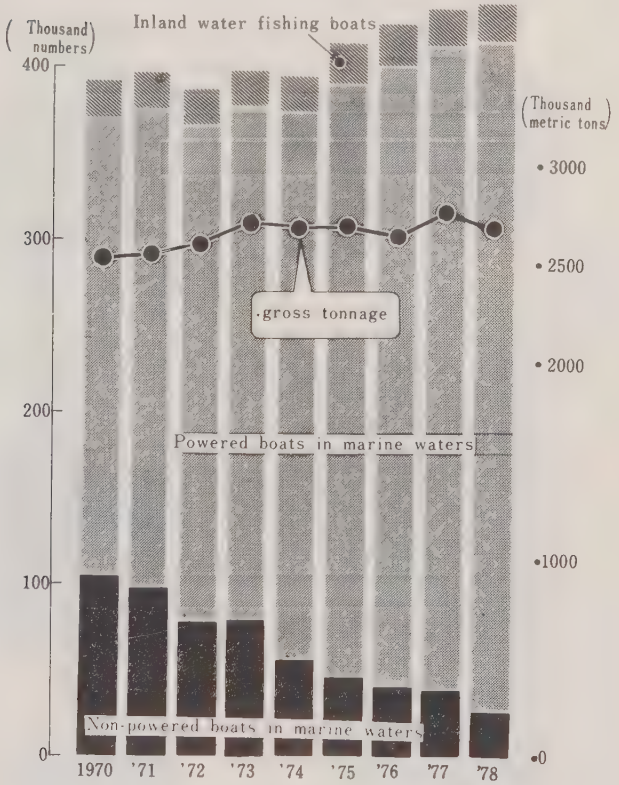
1 Number of Marine Fishery Establishments, 1978



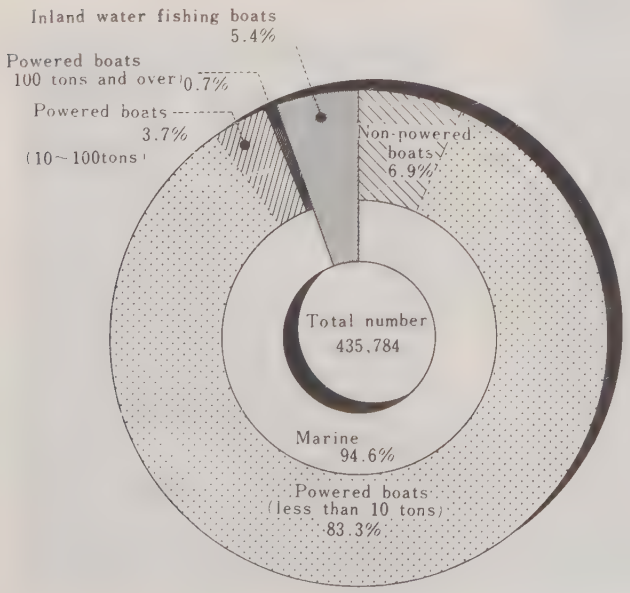
2 Number of Marine Fishery Workers, 1978



3 Number of Fishing Boats, 1970～1978

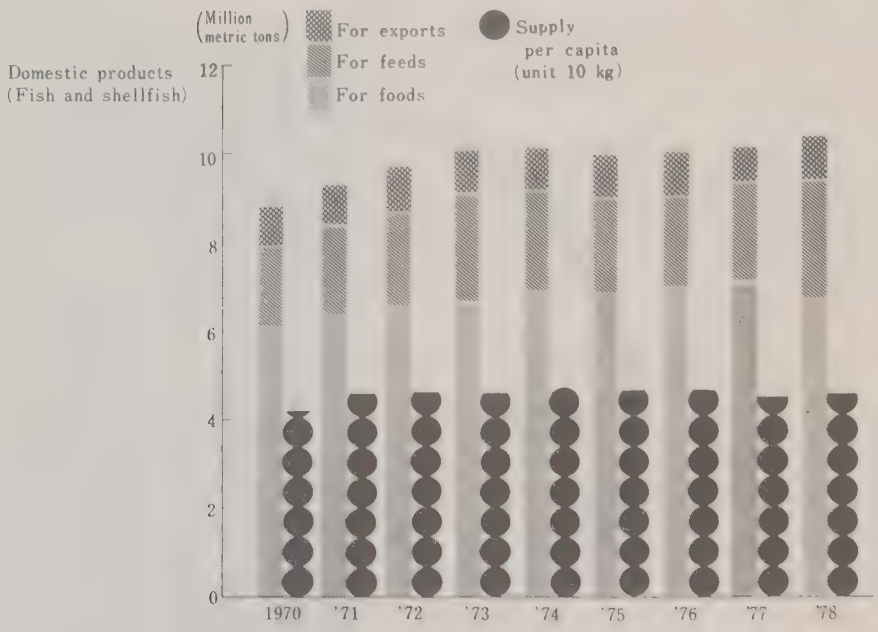


4 Number of Fishing Boats, 1978

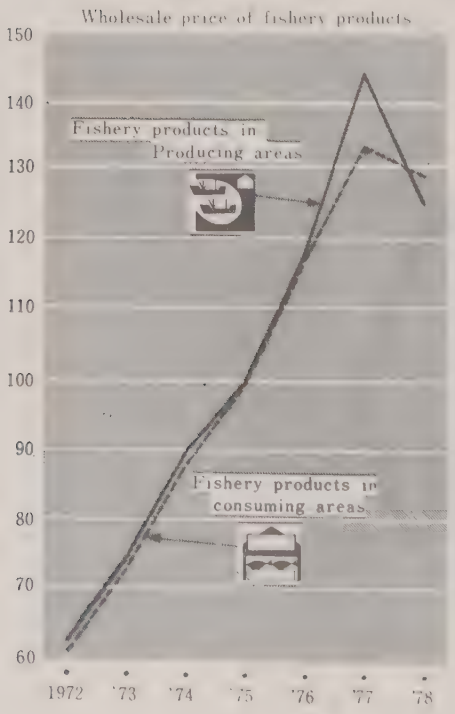


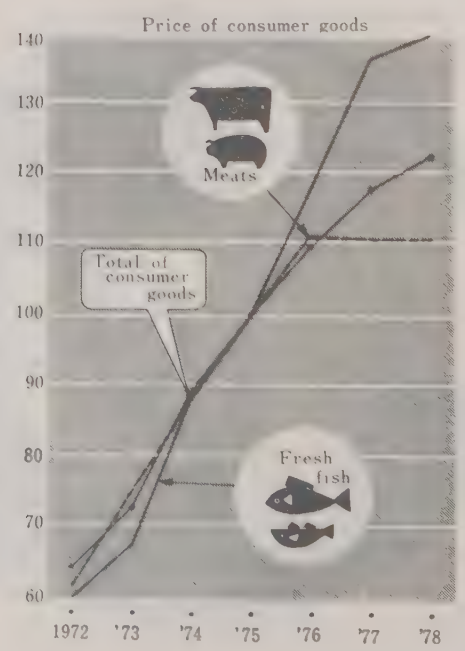
III MARKETING OF FISHERY PRODUCTS

1 Supply of Fishery Products, 1970～1978

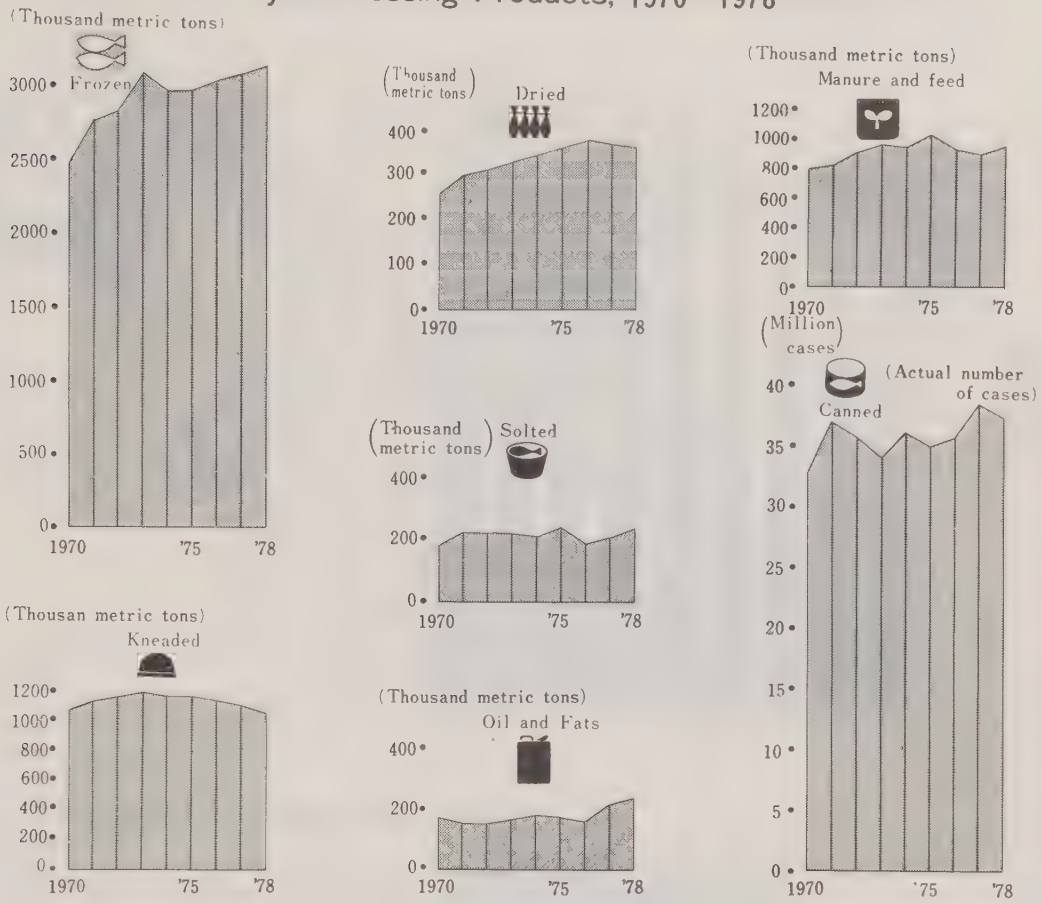


2 Price Index of Fishery Products (1975－100) 1972～1978

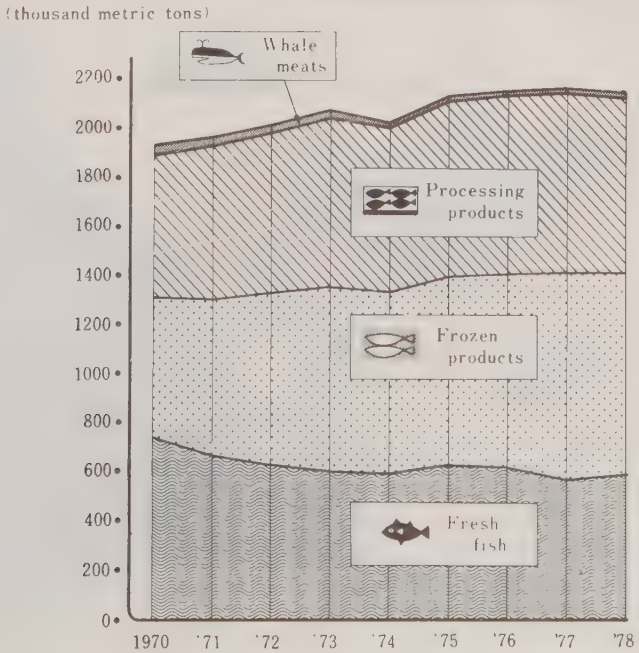




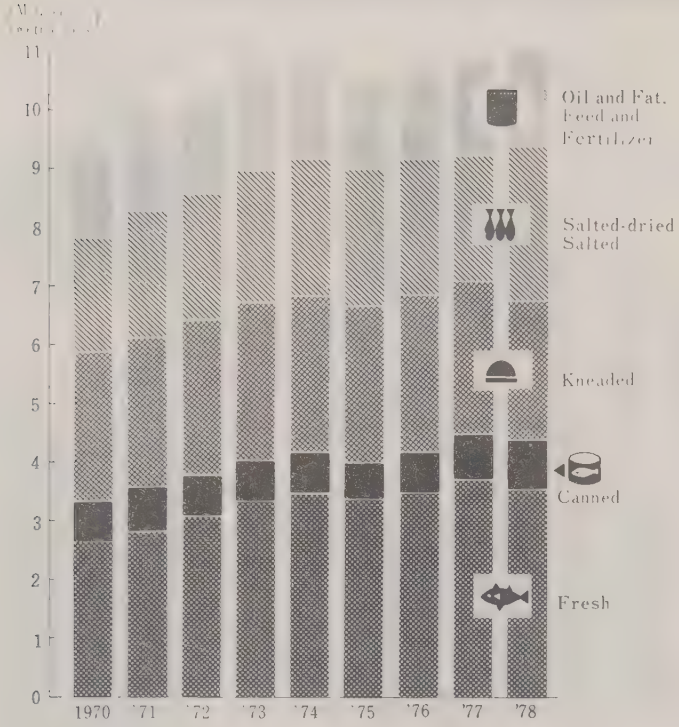
3 Fishery Processing Products, 1970～1978



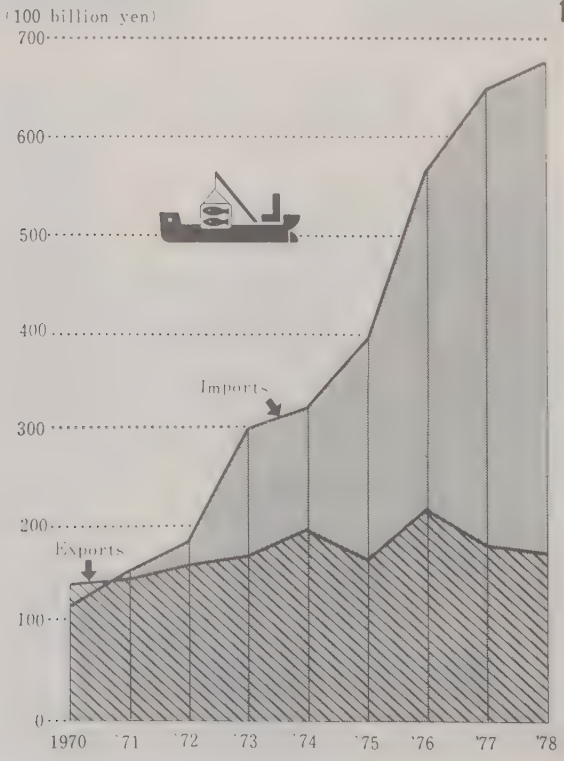
4 Volume Transacted by Group of Commodity in Six Large Central Wholesale Markets, 1970～1978



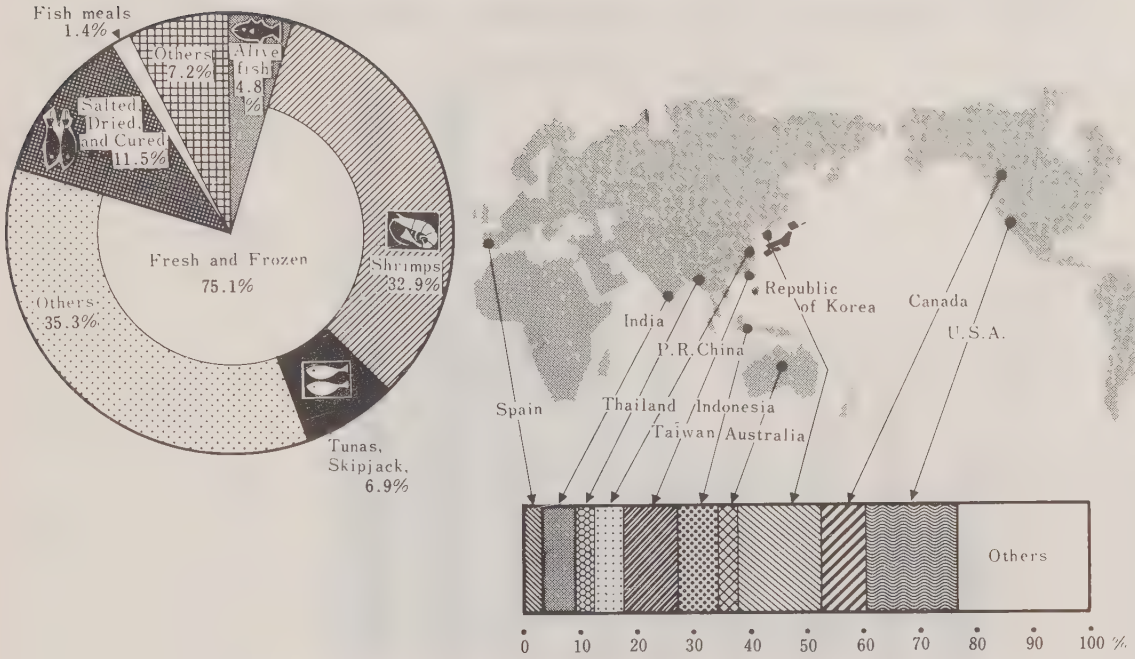
5 Disposition of Fishery Products, 1970～1978



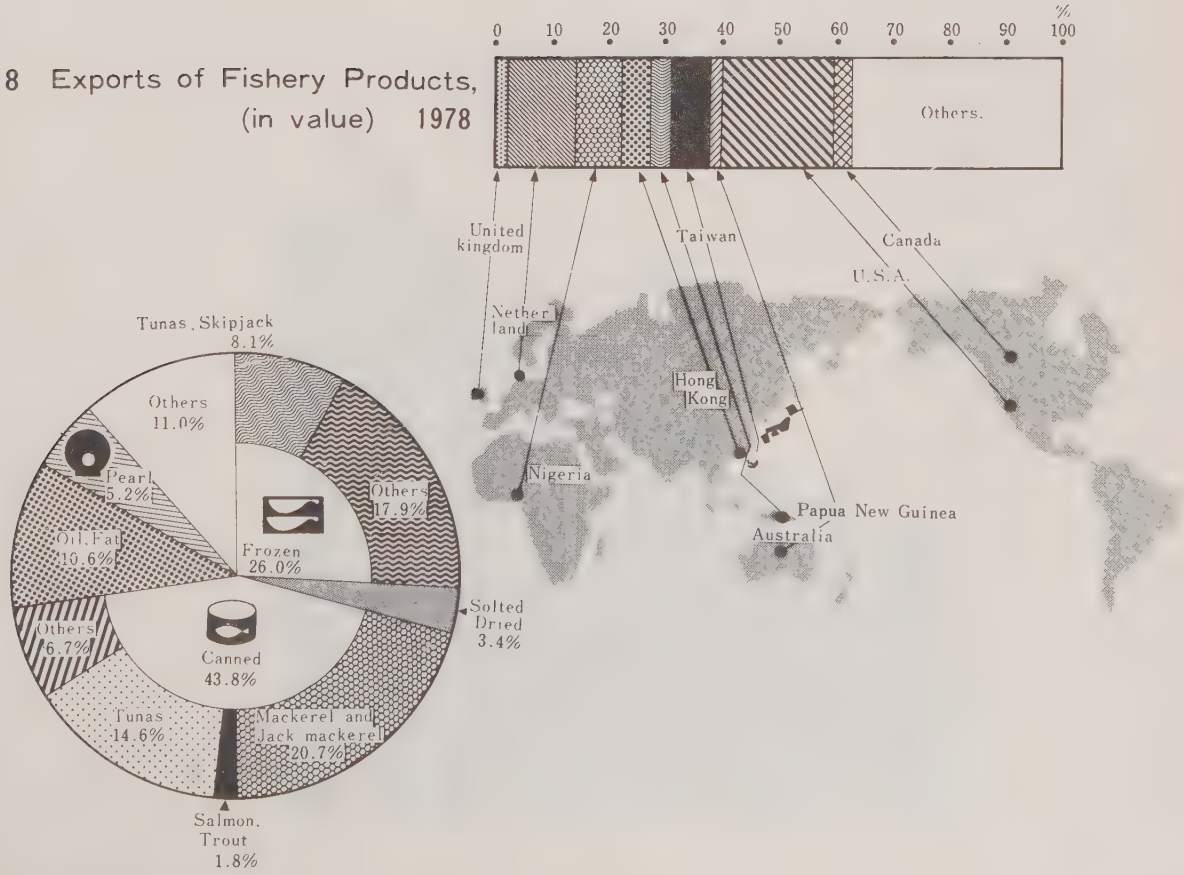
6 Exports and Imports of Fishery Products, 1970～1978



7 Imports of Fishery Products, 1978 (in value)



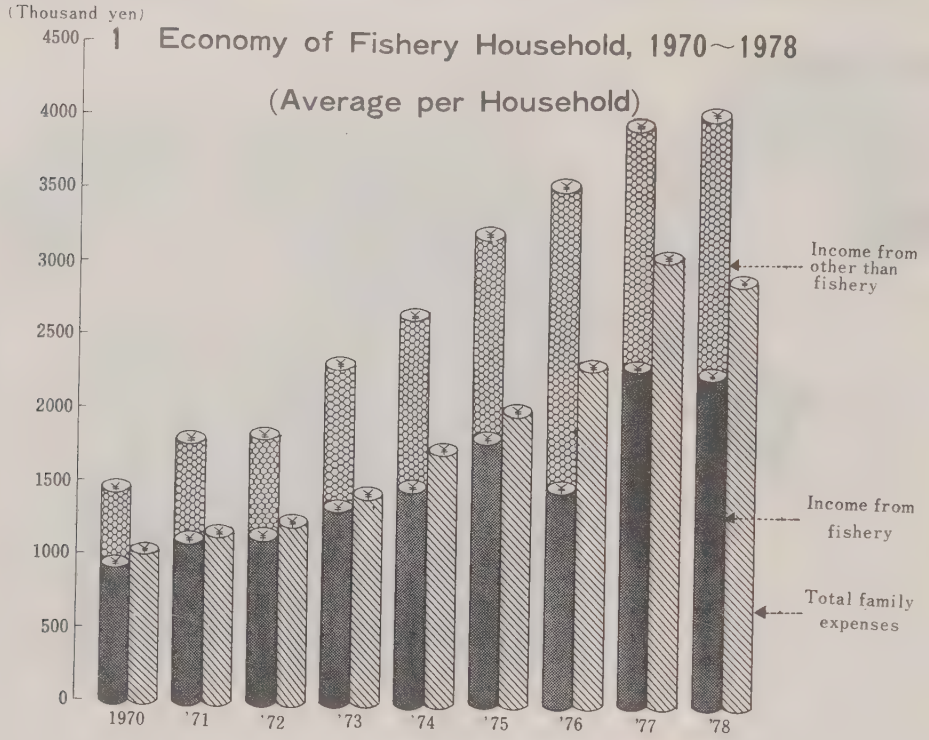
8 Exports of Fishery Products, (in value) 1978



Ⅳ ECONOMY OF FISHERY MANAGEMENT UNIT

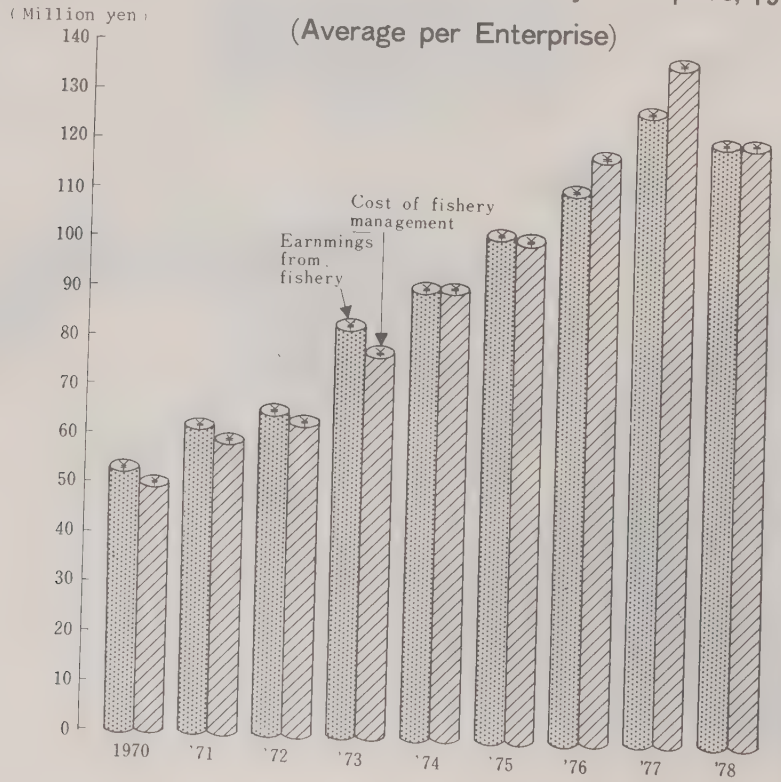
1 Economy of Fishery Household, 1970～1978

(Average per Household)



2 Economy of Middle and Small Size Fishery Enterprise, 1970～1978

(Average per Enterprise)



STATISTICAL TABLES

I FISHERIES PRODUCTION

I — 1 SUMMARY OF CATCH BY FISHERY SECTOR, 1950～1978

Unit { Quantity: Thousand metric tons
Value : Hundred million yen

Year	Total		Marine Fisheries		Marine Cultures		Inland Water Fisheries		Inland Water Cultures		Whalings	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Numbers	Value
1950	3,353	--	3,255	---	48	---	63	---	5	---	5,332	---
1951	3,930	---	3,774	---	88	---	60	---	6	---	6.335	---
1952	4,823	---	4,646	---	113	---	53	---	9	---	7,816	---
1953	4,598	---	4,387	---	144	---	57	---	8	---	6,631	---
1954	4,541	---	4,304	---	145	---	82	---	9	---	9,591	---
1955	4,907	---	4,658	---	154	---	82	---	11	---	11,866	---
1956	4,772	2,310	4,488	2,012	180	206	90	62	13	30	14,124	160
1957	5,407	2,582	5,067	2,303	244	174	81	73	14	31	15,439	213
1958	5,506	2,569	5,198	2,257	214	205	78	70	15	37	19,922	196
1959	5,884	2,877	5,568	2,535	225	236	75	69	15	36	20,527	221
1960	6,192	3,448	5,817	2,983	284	338	74	80	15	47	19,649	234
1961	6,710	3,952	6,287	3,340	322	455	81	93	18	64	20,848	267
1962	6,864	4,266	6,397	3,567	362	538	84	94	20	68	22,240	269
1963	6,698	4,830	6,200	3,988	389	650	84	98	23	94	22,373	309
1964	6,350	4,976	5,868	4,039	362	724	89	102	29	111	24,410	323
1965	6,908	5,558	6,382	4,516	380	816	113	101	33	126	26,986	376
1966	7,103	6,260	6,558	5,005	405	974	103	118	36	164	22,784	290
1967	7,851	7,026	7,241	5,677	470	1,074	97	109	42	166	21,088	252
1968	8,670	7,448	7,993	6,097	522	1,010	103	119	52	221	21,586	237
1969	8,613	8,488	7,976	6,928	473	1,130	112	144	52	285	17,409	221
1970	9,315	9,692	8,598	7,852	549	1,353	119	170	48	317	16,887	272
1971	9,909	10,894	9,149	8,957	609	1,374	101	214	50	349	16,419	314
1972	10,213	11,796	9,400	9,417	648	1,708	109	231	56	441	17,590	278
1973	10,763	14,641	9,793	11,564	791	2,252	114	299	64	528	14,012	273
1974	10,808	17,084	9,749	13,789	880	2,325	112	348	67	622	14,277	327
1975	10,545	18,870	9,573	15,204	773	2,536	127	417	72	713	13,427	337
1976	10,656	21,862	9,605	17,702	850	2,933	124	415	77	811	9,632	216
1977	10,757	25,451	9,688	20,513	861	3,522	126	486	82	930	9,299	206
1978	10,827	24,634	9,681	18,910	917	4,013	138	509	90	1,076	5,924	126

I — 2 SUMMARY OF CATCH BY SPECIES GROUP, 1950～1978

Unit: Thousand metric tons

Year	Total	Marine Waters					Inland Waters				
		Fishes	Molluscs	Crus-taceans	Aquatic plants	Others	Fishes	Molluscs	Crus-taceans	Aquatic plants	Others
1950	3,373	2,210	760	49	257	28	3	12	1	23	1
1951	3,930	2,572	922	56	290	22	30	12	1	23	2
1952	4,823	3,268	1,033	72	361	27	35	13	1	12	1
1953	4,598	3,253	889	70	292	27	37	15	1	12	2
1954	4,541	3,239	786	99	287	38	44	14	2	31	1
1955	4,907	3,541	802	106	310	53	52	14	3	25	1
1956	4,772	3,441	774	95	304	52	60	16	3	24	3
1957	5,407	3,877	894	108	402	27	64	24	5	2	4
1958	5,506	4,017	893	119	339	42	62	26	3	1	4
1959	5,884	4,267	1,027	119	337	44	59	26	1	1	4
1969	6,192	4,463	1,078	126	386	51	60	25	1	1	3
1961	6,710	5,015	985	138	425	49	66	28	2	1	3
1962	6,864	4,911	1,158	149	501	41	69	30	2	1	3
1963	6,698	4,653	1,303	159	425	51	72	33	1	1	2
1964	6,350	4,745	925	153	361	48	80	35	1	0	2
1965	6,908	5,093	1,082	132	406	52	86	36	1	0	2
1966	7,103	5,232	1,097	142	436	57	86	30	1	0	2
1967	7,851	5.742	1,225	149	534	60	92	42	2	0	2
1968	8,670	6,340	1,430	186	563	57	104	44	2	1	4
1969	8,613	6,561	1,238	153	444	53	107	51	3	1	3
1970	9,315	7,289	1,132	140	521	59	103	58	3	1	3
1971	9,999	7,913	1,065	126	587	66	107	36	5	1	2
1972	10,213	8,075	1,217	137	559	59	110	46	5	1	2
1973	10,763	8,645	1,130	141	653	64	124	43	6	1	2
1974	10,808	8,543	1,129	170	601	85	126	44	6	1	3
1975	10,545	8,341	1,156	147	627	75	141	48	7	1	3
1976	10,656	8,378	1,196	129	665	87	142	48	5	1	5
1977	10,757	8,461	1,223	126	638	101	150	49	6	0	3
1978	10,827	8,433	1,232	141	638	155	161	52	9	0	6

I — 3 CATCH IN QUANTITY

	1974	1975	1976	1977	1978
Total 1)	10,808,220	10,545,148	10,655,903	10,756,794	10,826,624
[illegible]	9,749,031	9,573,068	9,605,283	9,687,586	9,681,262
[illegible]	8,446,279	8,243,093	8,269,154	8,335,958	8,298,423
Tunas, albacore	348,950	310,616	367,793	336,530	384,674
Marlins, swordfishes	48,712	50,561	45,155	41,548	46,627
Skipjack, frigate mackerel	373,573	273,640	351,248	322,703	384,621
[illegible]	46,365	49,564	51,471	58,839	41,775
[illegible]	132,531	159,338	126,094	116,465	102,760
[illegible]	76,273	66,617	66,083	19,873	6,708
Sardine, round herring	397,848	569,983	1,118,168	1,464,655	1,687,953
[illegible]	287,516	245,164	216,664	244,933	152,428
Jack mackerel, scads	215,729	235,316	206,667	185,801	153,131
[illegible]	1,330,625	1,318,210	978,826	1,355,309	1,625,865
[illegible]	135,462	221,573	105,419	253,465	360,213
[illegible]	40,977	38,316	42,763	26,915	37,414
Flounders, halibuts, soles	356,751	348,334	352,134	288,025	313,830
[illegible]	108,399	92,370	90,468	85,252	89,016
[illegible]	2,855,896	2,677,371	2,445,423	1,931,072	1,546,176
[illegible]	143,500	114,706	229,194	234,812	134,763
[illegible]	122,963	95,407	89,810	61,926	32,239
[illegible]	51,775	45,107	39,044	40,439	37,465
[illegible]	39,262	32,423	30,564	28,154	28,085
[illegible]	29,558	28,970	29,325	29,666	30,065
Spanish mackerel	21,149	14,633	15,204	40,621	17,778
[illegible]	299,855	274,850	224,390	137,340	99,078
[illegible]	982,610	980,024	1,047,247	1,038,639	985,759
[illegible]	169,504	145,620	127,593	125,049	140,035
Spiny lobster	1,289	1,086	1,028	971	1,000
[illegible]	2,653	2,895	2,579	2,440	2,673
Other prawns, shrimps	74,972	65,356	57,415	50,019	56,003
King crab	5,461	1,823	1,258	287	130
Queen crab	30,066	24,201	22,028	21,070	22,902
Other crabs	55,063	50,259	43,285	50,262	57,327
[illegible]	855,417	884,615	904,553	927,082	932,344
Common squid	335,018	378,344	300,963	264,287	257,117
Other squids, cuttlefishes	134,949	152,583	189,725	248,378	262,596
[illegible]	76,731	73,962	66,873	67,913	65,441
[illegible]	4,971	5,416	5,655	5,203	5,377
[illegible]	137,719	122,052	135,573	155,506	153,767
Common scallop	25,207	30,274	30,270	43,502	59,664
"Mogai" clam	36,530	18,489	11,068	5,950	4,023
Other clams, shellfishes	104,292	103,495	164,426	136,343	124,359

BY SPECIES, 1974~1978

Metric tons

Species	1974	1975	1976	1977	1978
Echinodermata, etc.	77,724	67,199	76,639	32,127	145,638
Sea urchins	23,573	22,482	23,069	26,898	25,930
Sea cucumbers	10,817	9,380	10,579	9,793	10,143
Other marine animals	43,334	35,337	42,991	55,436	109,565
Marine mamals	2,066	1,522	1,768	1,429	1,899
Seaweeds	198,041	231,019	223,178	206,030	162,893
Kelps	119,405	157,760	159,462	132,989	108,911
"Wakame" seaweed	20,098	19,200	13,337	20,180	12,213
Agar-agar	13,414	12,104	10,081	11,634	11,374
Others	45,124	41,955	36,996	41,227	30,395
Marine Cultures	879,761	772,741	849,909	861,389	917,244
Yellowtails	92,685	92,352	101,619	114,866	121,728
Pearl	32	30	34	35	37
Oyster	210,382	201,173	226,286	212,786	232,069
Common scallop	62,673	70,256	64,909	81,830	67,723
"Nori" seaweed	339,314	278,127	291,050	279,781	350,471
"Wakame" seaweed	153,762	102,058	126,723	125,833	102,682
Others	20,714	28,745	39,288	46,258	42,534
Inland Water Fisheries	112,329	127,222	124,066	128,660	130,885
Salmons, trouts	4,615	5,173	5,750	4,933	5,120
Sweet fish	12,268	13,351	13,272	13,401	13,388
Common carp, crucian carp	15,045	16,589	17,073	17,096	16,227
Eel	2,083	2,100	2,040	2,007	1,968
Fresh water clams	43,874	41,193	48,214	49,238	47,107
Others	34,444	49,466	37,717	42,985	44,075
Inland Water Cultures	67,099	72,113	76,643	82,113	83,333
Trouts	17,631	16,725	16,881	18,826	19,629
Sweet fish	4,712	4,991	5,744	5,875	7,185
Common carp, crucian carp	27,164	29,097	30,013	30,302	30,452
Eel	17,077	20,749	23,490	27,630	32,106
Others	515	551	515	735	1,151
Whaling 2)	14,277	13,427	9,832	5,233	5,224
Blue whale	-	-	-	-	-
Fin whale	945	1,005	1 8	-	-
Humpback whale	-	-	-	-	-
Sei whale	4,371	3,139	4,957	1,737	1,466
Sperm whale	4,779	5,784	4,110	3,312	3,400
Mink whale	4,185	3,870	3,363	4,138	338
Bottlenose whale	38	46	51	44	11
Pilot whale	52	53	43	6	5
Others	7	8	9	2	5

Notes : 1) Excluding whales .

2) Actual number of catch .

I — 4 CATCH IN VALUE

Species	1974	1975	1976	1977	1978
Total	1,741,134	1,920,668	2,207,736	2,565,646	2,463,414
Marine Fisheries	1,378,903	1,520,345	1,770,243	2,051,325	1,890,954
Fishes	1,010,087	1,104,331	1,302,713	1,530,142	1,346,818
Tunas, albacore	201,976	203,665	245,993	278,989	252,448
Marlins, swordfishes	26,718	29,537	30,694	32,143	26,510
Skipjack, frigate mackerel	74,022	74,116	86,747	103,870	78,790
Sharks, rays	3,743	4,397	5,595	6,728	5,402
Salmons, trouts	78,157	109,943	96,800	111,084	127,393
Herring	9,943	9,307	13,479	4,872	1,856
Sardine, round herring	19,739	20,339	45,390	62,566	47,184
Anchovy	17,966	16,910	18,038	20,851	12,925
Jack mackerel, scads	41,788	46,699	58,780	68,525	48,405
Mackerels	63,885	57,090	70,710	79,494	57,905
Saury	9,989	25,232	21,585	41,117	35,591
Yellowtails	27,380	29,480	36,685	28,140	32,614
Flounders, halibuts, soles	57,320	70,328	80,608	93,865	96,290
Cod	12,016	12,476	14,630	16,766	18,319
Alaska pollack	99,566	99,466	111,457	147,261	124,040
Atka mackerel	4,738	3,565	8,014	10,996	6,134
Rockfishes	16,818	16,282	16,758	17,237	14,339
Croakers	6,814	7,177	8,235	8,910	7,719
Hairtail	4,959	6,017	7,098	8,594	6,450
Sea breams	31,492	34,437	42,549	47,223	48,405
Spanish mackerels	3,750	4,904	6,073	11,935	7,911
Sand lance	9,771	11,714	13,181	15,321	8,944
Others	181,181	211,250	263,614	313,655	281,244
Crustaceans	90,601	90,071	97,380	103,475	108,996
Spiny lobster	4,712	4,142	4,858	5,081	5,388
"Kuruma" prawn	8,546	10,017	9,119	10,482	11,294
Other prawns, shrimps	45,752	44,210	50,961	50,685	53,704
King crab	4,257	865	731	178	94
Queen crab	12,680	12,851	13,027	15,117	18,005
Other crabs	14,654	17,986	18,684	21,932	20,511
Molluscs	231,237	274,103	308,052	349,634	370,636
Common squid	111,361	130,169	119,884	125,603	122,313
Other squids, cuttlefishes	50,666	59,459	80,490	101,886	124,705
Octopuses	21,807	26,496	29,330	32,786	27,339
Abalones	10,305	13,848	16,029	16,136	18,082
Short necked clam	8,178	8,683	11,969	17,236	23,003
Common scallop	4,086	5,353	8,203	10,551	11,327
"Mogai" clam	1,662	2,241	1,413	1,016	736
Other clams, shellfishes	23,172	27,854	40,734	44,420	43,131

BY SPECIES, 1974～1978

Unit: Million yen

Species	1974	1975	1976	1977	1978
Echinodermata, etc.	19,196	20,621	28,874	36,845	36,120
Sea urchins	9,591	10,437	14,313	17,203	16,418
Sea cucumbers	3,238	3,411	5,064	4,349	4,470
Other marine animals	6,367	6,773	9,497	15,293	15,232
Marine mammals	330	175	298	186	302
Seaweeds	27,453	31,044	32,926	31,043	28,081
Kelps	18,782	22,195	23,594	20,969	19,752
"Wakame" seaweed	2,612	2,497	2,449	2,706	1,826
Agar-agar	1,632	1,730	2,011	2,068	2,009
Other	4,427	4,624	4,872	354,934	4,494
Marine Cultures	232,494	253,612	293,343	352,156	401,321
Yellowtails	72,705	85,617	91,159	120,313	116,484
Pearl	14,473	18,510	22,158	25,456	22,128
Oyster	16,511	19,897	24,455	27,803	24,694
Common scallop	11,838	14,334	19,227	23,153	16,040
"Nori" laver	88,068	83,546	94,089	108,267	166,950
"Wakame" seaweed	11,134	8,538	11,271	9,232	8,478
Others	15,517	19,936	30,984	37,932	46,547
Inland Water Fisheries	34,843	41,704	41,479	48,627	50,921
Salmons, trouts	2,163	3,972	3,177	3,445	3,625
Sweet fish	14,767	17,377	16,124	19,148	20,070
Common carp, crucian carp	4,177	4,835	5,008	5,578	6,111
Eel	2,828	3,210	2,558	2,845	2,816
Fresh water clams	2,603	4,095	4,822	6,434	6,924
Others	8,305	8,215	9,790	11,177	11,375
Inland Water Cultures	62,168	71,285	81,082	92,986	107,622
Trouts	9,115	8,230	9,008	10,764	11,743
Sweet fish	5,579	6,237	6,734	8,488	11,011
Common carp, crucian carp	11,693	12,146	10,808	13,218	14,197
Eel	33,556	41,913	51,452	56,863	66,748
Others	2,225	2,759	3,080	3,653	3,923
Whalings	32,725	33,722	21,589	20,552	12,605

I — 5 CATCH IN QUANTITY AND VALUE

Type of Fisheries	1974		1975	
	Q	V	Q	V
Total 1)	10,808,220	1,708,409	10,545,148	1,886,946
Marine fisheries	9,749,031	1,378,903	9,573,068	1,520,345
Mother ship types				
Mother ship type trawl	962,143	32 308	796,050	33,613
Mother ship type salmon fishery	33,563	17,413	33,907	17,901
Mother ship type crab fishery	13,467	4,112	8,099	3,598
Mother ship type tuna long line	2,310	1,005	2,017	1,100
Trawls				
Large trawls in N.Pacific Ocean	1,643,020	87,695	1,389,088	87,916
Large trawl in Southern Ocean	280,933	50,468	285,527	55,247
Large trawl in East China Sea	218,858	54,682	210,552	56,077
Shrimp trawl	5,016	5,813	3,819	4,627
Medium trawl (one boat operation)	1,140,087	58,003	1,309,128	64,803
(two boats operation)	61,958	12,572	61,129	13,994
Small trawls	291,679	83,797	286,999	97,458
Surrounding nets				
Large and medium surrounding net (one boat operation)	1,346,949	86,022	1,378,885	88,078
(two boats operation)	166,769	9,979	190,007	6,985
Purse seine(one boat operation)	239,816	26,595	250,358	24,207
(two boats operation)	221,580	19,665	219,339	18,000
Others	24,063	5,237	24,435	6,560
Lift nets				
Saury stick held dip net	127,987	9,351	216,488	24,731
Others	121,912	10,236	94,474	10,392
Gill nets				
Salmon drift gill net	51,884	33,614	55,702	36,776
Others	338,245	61,599	309,506	71,978
Seine nets				
Beach seine	10,777	1,631	11,781	2,293
"Patchi" seine	103,403	11,177	105,106	15,119
Boat seine	110,445	20,068	110,750	28,279
Set nets				
Salmon large set net	39,766	26,583	57,125	45,259
Other large set net	148,018	34,880	183,336	36,348
Small set nets	120,727	28,015	140,931	33,368
Anglings				
Skipjack pole-and-line on distant waters	286,446	64,607	203,219	56,430
Skipjack pole-and-line on offshore waters	130,641	25,573	102,685	29,020
Skipjack pole-and-line on coastal waters	28,025	6,627	16,678	4,550
Mackerel pole-and-line	59,202	3,526	53,655	2,597
Other mackerel anglings	9,393	859	6,985	784
Squid angling	347,376	116,162	409,405	139,516
Others	89,566	41,075	88,768	46,823
Long lines				
Tuna long line on distant waters	205,119	136,121	198,120	141,729
Tuna long line on offshore waters	78,535	34,324	74,592	41,536
Tuna long line on coastal waters	15,981	10,465	17,103	10,594
Salmon long line	3,041	2,085	3,154	1,627
Others	85,108	27,250	80,953	29,491
Others				
N. Pacific Ocean tanner crab fishery	5,214	2,471	6,608	3,110
N. Pacific Ocean long line and gill net	29,642	7,990	29,144	8,727
Shellfish collecting	203,479	28,286	174,074	32,733
Seaweed collecting	195,689	27,180	228,486	30,697
Other fisheries	156,199	51,786	144,901	55,674
Marine Cultures	879,761	232,494	772,741	253,612
Inland Water fisheries	112,329	34,843	127,220	41,704
Inland Water Cultures	67,099	62,168	72,119	71,285
Whalings				
Antarctic mother ship type	7,457	20,931	7,423	26,530
N. Pacific mother ship type	3,731	9,120	3,063	7,260
Coastal large type	2,620	2,430	2,464	2,220
Coastal small type	469	240	477	395

Notes: 1) Excluding whalings.

BY FISHERY TYPE, 1974～1978

Unit { Quantity : Metric tons
Value : Million yen

1976		1977		1978	
Q	V	Q	V	Q	V
10,655,903	2,186,147	10,756,794	2,545,094	10,826,624	2,463,414
9,605,283	1,770,243	9,687,586	2,051,325	9,681,262	1,890,954
764,416	41,064	565,208	47,247	555,706	52,219
32,418	20,020	23,565	17,608	15,399	16,992
8,100	4,177	9,770	5,838	-	-
1,229	676	501	---	---	---
1,170,959	84,942	1,013,519	79,339	622,496	71,318
301,471	65,411	407,144	77,286	259,339	65,749
184,882	63,039	206,182	71,910	197,769	64,880
3,341	4,711	2,901	5,104	2,720	4,896
1,388,533	86,623	916,909	105,425	824,829	89,387
60,259	17,906	68,276	19,438	59,980	18,193
287,890	112,390	323,789	136,171	339,240	141,206
1,429,651	127,472	2,016,216	149,447	2,449,046	113,613
162,717	6,943	128,258	5,304	68,324	1,914
359,914	35,984	411,759	43,773	499,552	42,248
267,165	23,558	269,761	27,977	269,333	21,608
20,495	7,410	25,823	4,851	10,540	4,385
99,435	20,411	244,159	39,394	350,617	34,886
115,675	13,649	108,711	15,102	140,809	15,105
48,973	37,746	38,354	33,354	25,287	25,079
295,270	88,874	335,612	100,096	344,758	107,551
11,371	2,631	10,054	2,629	8,935	2,671
110,334	17,766	136,817	21,428	110,599	16,449
136,718	34,168	140,819	41,640	131,963	42,934
34,318	29,607	42,786	43,964	49,754	63,334
164,564	43,622	166,347	46,192	180,626	46,186
132,604	38,242	147,289	47,786	144,661	46,520
253,306	72,748	205,872	20,077	231,703	54,127
154,141	39,910	120,204	41,108	161,445	34,409
19,133	6,115	17,589	6,652	23,840	7,103
93,570	5,322	139,058	10,812	28,548	1,255
8,168	1,036	8,306	1,188	4,658	683
377,261	146,536	346,542	159,830	363,670	170,328
95,410	58,159	87,039	62,244	90,649	59,013
191,436	149,990	201,596	2) 185,781	2) 200,888	2) 160,563
81,681	49,611	95,369	62,199	101,490	51,553
22,081	12,788	22,042	12,626	23,313	11,336
3,035	2,320	2,345	2,078	2,026	1,698
72,759	35,633	75,868	41,801	96,587	43,083
5,822	3,424	3,710	2,406	3) 15,797	3) 8,820
30,966	10,589	23,349	8,576	24,338	6,365
222,356	45,887	216,495	51,284	215,162	59,468
223,210	32,461	203,125	30,473	159,589	26,700
158,246	69,167	167,661	73,892	275,277	85,132
849,909	293,343	861,389	352,156	917,244	401,321
124,066	41,479	125,660	48,627	138,185	50,912
76,645	81,082	82,159	92,986	89,933	107.622
5,043	15,290	5,421	13,720	2,950	7,560
1,631	3,440	1,485	3,360	735	1,690
2,570	3,000	2,093	3,140	1,792	2,790
388	330	300	340	447	570

Notes: 2) Including mother ship type tuna long line
3) Including mother ship type crab fishery

I — 6 CATCHES OF MAJOR SPECIES

(1) Tunas, albacore

Unit: Metric tons

	1974	1975	1976	1977	1978
Total Catch	348,950	310,616	367,793	336,530	384,674
Tuna long line					
mother ship type	1,798	1,050	347	461	...
in distant waters	162,218	159,239	155,938	171,239	1) 166,844
in offshore waters	47,700	48,343	56,279	65,870	76,027
in coastal waters	11,248	12,954	17,095	16,836	16,852
Skipjack pole-and-line	95,423	67,264	112,877	56,267	80,159
Surrounding nets	16,493	13,490	14,399	16,177	24,827
Others	14,070	8,276	10,858	9,680	20,809

(2) Marlins, swordfishes

Total Catch	48,712	50,561	45,155	41,548	46,627
Tuna long line					
mother ship type	436	947	861	30	...
in distant waters	31,230	27,383	24,726	19,938	1) 23,269
in offshore waters	9,745	8,911	8,389	9,911	9,903
in coastal waters	1,070	1,394	1,508	1,838	2,236
Other gill nets	4,729	10,150	7,746	8,164	9,295
Others	1,502	1,776	1,925	1,667	1,924

(3) Skipjack

Total Catch	346,895	258,736	331,047	309,407	369,530
Skipjack pole-and-line					
in distant waters	205,491	151,621	170,416	168,993	172,428
in offshore waters	114,926	84,221	122,146	96,343	136,814
in coastal waters	12,864	8,506	10,070	12,099	17,673
Surrounding nets (one boat)	5,864	8,186	20,400	24,396	31,810
Surrounding nets (two boats)....	1,078	318	628	114	287
Other anglings	5,116	4,561	5,596	4,569	7,280
Others	1,556	1,323	1,791	2,893	3,238

(4) Salmons, trouts

Total Catch	132,531	159,338	126,094	116,465	102,760
Mother ship type salmon fishery.	33,563	33,907	32,418	23,565	15,399
Salmon drift gill net	51,884	55,702	48,973	38,354	25,287
Salmon large set net	36,247	53,183	34,254	37,349	45,198
Small set nets	4,553	6,867	5,180	6,958	6,901
Other long lines	3,071	3,797	3,137	2,539	2,266
Others	3,213	5,882	2,132	7,700	7,709

(5) Herring

Total Catch	76,273	66,617	66,083	19,873	6,708
Mother ship type trawl	1,746	501	2,272	564	281
Large trawl in Southern Ocean ..	3,436	2,079	868	1	2
Medium trawl(one boat)	14,760	9,985	22,460	8,151	3,174
Other gill nets	50,867	52,997	34,575	5,098	984
Others	5,464	1,055	5,908	6,059	2,267

Note : 1) Including mother ship type tuna long line.

BY FISHERY TYPE, 1974~1978

(6) Sardine, round herring

Unit: Metric tons

	1974	1975	1976	1977	1978
Total Catch	397,848	569,983	1,118,168	1,464,655	1,687,953
Surrounding nets (one boat)	168,988	257,790	761,233	1,016,906	1,247,384
Surrounding nets (two boats)	177,474	245,996	276,214	279,148	236,787
Other surrounding nets	2,962	4,077	1,919	1,325	639
Other lift nets	15,081	14,174	13,136	22,663	28,444
Set nets	27,512	39,959	50,642	79,875	103,069
Others	5,831	7,987	15,024	64,738	71,630

(7) Anchovy

Total Catch	287,516	245,164	216,664	244,933	152,428
Surrounding nets (one boat)	62,156	56,516	45,498	63,526	36,335
Surrounding nets (two boats)	100,323	69,839	58,426	58,054	39,242
Set nets	15,035	13,523	10,045	17,956	11,304
"Patchi" seine	69,012	67,001	58,423	54,242	33,453
Boat seine	23,668	26,011	31,949	37,406	22,238
Others	17,322	12,274	12,323	13,749	9,856

(8) Jack mackerel, scads

Total Catch	215,724	235,316	206,667	185,801	153,131
Surrounding nets (one boat)	158,337	186,603	168,161	150,650	126,125
Surrounding nets (two boats)	22,527	11,889	11,581	8,656	3,891
Other lift nets	8,007	6,848	6,455	7,243	8,275
Set nets	15,589	16,789	10,700	9,329	6,904
Others	11,264	13,187	9,770	9,923	7,936

(9) Mackerels

Total Catch	1,330,625	1,318,210	978,826	1,355,309	1,625,865
Surrounding nets (one boat)	1,113,049	1,067,570	713,855	1,106,790	1,404,489
Surrounding nets (two boats)	71,194	69,742	72,832	40,445	40,115
Mackerel pole-and-line	59,150	53,118	93,470	138,113	28,449
Set nets	51,870	97,654	60,618	30,813	27,565
Others	35,362	30,126	38,051	39,148	125,247

(10) Saury

Total Catch	135,462	221,573	105,419	253,465	360,213
Saury stick held dip net	127,166	215,911	99,254	243,844	350,532
Other gill nets	3,832	1,673	3,177	2,996	2,800
Set nets	4,072	3,683	2,668	5,673	5,041
Others	392	306	320	952	1,840

I — 6 CATCHES OF MAJOR SPECIES

(11) Yellowtails

Unit: Metric tons

	1974	1975	1976	1977	1978
Total Catch	40,977	38,361	42,763	26,915	37,414
Surrounding nets	7,255	6,877	6,553	3,427	5,423
Large set nets	13,206	12,800	11,574	6,695	13,264
Small set nets	3,385	3,389	3,647	2,832	5,078
Other gill nets	4,202	4,020	4,034	2,995	3,136
Other anglings	10,781	9,348	13,955	9,046	8,282
Others	2,148	1,882	3,000	1,920	2,231

(12) Flounders, halibuts, soles

Total Catch	356,749	348,334	352,134	288,025	313,830
Mother ship type trawl	110,682	97,656	104,313	62,819	57,059
Large trawls in N.Pacific Ocean..	90,291	82,711	80,729	75,324	105,790
Large trawl in East China Sea	19,535	26,228	22,351	16,616	15,638
Medium trawls	65,542	66,621	66,020	55,580	54,962
Small trawls	26,860	27,073	26,038	27,755	27,430
Other gill nets	32,642	36,525	36,896	39,320	39,394
Others	11,197	11,520	15,787	10,611	13,557

(13) Cod

Total Catch	108,399	92,370	90,468	85,252	89,016
Mother ship type trawl	32,306	23,162	19,200	18,456	16,617
Large trawls in N.Pacific Ocean..	26,612	18,734	26,264	20,213	27,643
Medium trawls	29,652	28,202	23,943	27,143	18,521
Other gill nets	6,128	8,097	7,033	7,611	8,280
Other long lines	10,927	8,489	6,351	4,221	3,607
Others	2,774	5,686	7,671	7,608	14,348

(14) Alaska pollack

Total Catch	2,855,896	2,677,371	2,445,423	1,931,072	1,546,176
Mother ship type trawl	806,147	663,029	630,182	478,155	475,244
Large trawls in N.Pacific Ocean..	1,331,742	1,138,707	911,740	803,207	394,015
Medium trawls	551,199	758,893	805,672	489,342	499,324
Other gill nets	135,852	90,501	72,539	122,372	115,832
Other long lines	20,497	20,907	17,199	23,855	44,656
Others	10,459	5,334	8,091	14,141	17,105

(15) Sea breams

Total Catch	29,497	28,970	29,325	29,664	30,065
Large trawl in Southern Ocean	3,063	2,543	1,293	1,658	632
Large trawl in East China Sea	3,406	2,966	4,396	4,112	4,720
Small trawls	2,554	2,545	2,607	2,802	3,171
Other gill nets	2,875	2,831	3,210	3,000	2,938
Boat seine	3,066	2,650	3,552	3,728	4,248
Other angling and long lines	10,185	9,604	9,763	10,014	9,441
Others	4,348	5,831	4,504	4,350	4,915

BY FISHERY TYPE, 1974~1978 (Continued)

(16) Sand lance

Unit: Metric tons

	1974	1975	1976	1977	1978
Total Catch	299,855	274,850	224,390	137,340	99,078
Medium trawls	192,151	189,462	117,817	57,338	28,807
Other lift nets	43,970	33,079	48,199	32,513	32,686
"Patchi" seine	13,356	11,650	6,841	3,906	6,454
Boat seine	39,417	30,951	42,347	31,786	26,469
Small set nets	6,885	7,650	7,201	7,861	2,333
Others	4,076	2,058	1,985	3,936	2,329

(17) Lobster, shrimps, prawns

Total Catch	78,914	69,337	61,022	53,427	59,676
Large trawls in N.Pacific Ocean	3,596	6,598	4,103	-	-
Shrimp trawl	5,010	3,819	3,341	2,901	2,720
Large trawl in East China Sea	18,146	7,923	6,924	4,191	4,510
Medium trawls	3,636	4,181	3,674	4,071	3,852
Small trawls	34,490	30,272	30,142	32,216	36,808
Other surrounding nets	4,417	5,673	2,941	99	3
Others	9,619	10,871	9,897	9,952	11,783

(18) Crabs

Total Catch	90,590	76,283	66,571	71,619	80,359
Mother ship type crab fishery	13,467	8,099	8,100	9,700	...
Medium trawls	5,879	4,493	4,133	4,280	3,985
Small trawls	6,287	6,511	5,306	5,668	6,277
Other gill nets	4,508	5,118	4,837	3,911	3,408
Other fishery (crab cages,etc.)	54,681	44,863	37,967	43,726	50,326
Others	6,875	7,199	6,228	4,334	1) 16,363

(19) Squids, cuttlefishes

Total Catch	469,933	537,838	501,869	512,665	519,713
Large trawl in Southern Ocean	39,000	34,059	29,122	50,778	30,167
Large trawl in East China Sea	18,779	27,167	18,816	27,784	26.931
Medium trawls	22,004	20,382	21,764	29,628	19,311
Set nets	17,975	16,015	16,188	19,604	15,288
Squid angling	346,944	408,942	376,890	346,043	363.272
Others	25,231	31,273	39,089	38,742	64,744

(20) Octopuses

Total Catch	76,731	73,962	66,873	67,913	65.441
Large trawl in Southern Ocean	28,144	24,535	24,645	26,100	19,818
Medium trawls	2,527	2,456	2,025	2,445	2,727
Small trawls	10,363	12,419	10,129	8,078	9.828
Other long lines	9,017	8,129	5,808	4,925	7,205
Other fishery (octopus pots)	22,477	22,537	20,177	21,549	22,024
Others	4,203	3,886	4,089	4,816	3,839

Note : 1) Including mother ship type crab fishery.

I — 7 INDEX OF FISHERY PRODUCTION BY TYPE OF FISHERIES, 1974～1978 (1975=100)

Group	1974	1975	1976	1977	1978
Fisheries total	96.1	100.0	102.0	101.5	105.4
Marine fisheries and marine cultures	96.5	100.0	103.5	106.0	104.2
Distant water fisheries 1)	100.3	100.0	98.3	97.3	85.9
Offshore fisheries 2)	84.7	100.0	108.1	108.9	127.2
Coastal fisheries 3)	86.5	100.0	100.6	106.2	105.5
Fisheries using fishing boat ...	91.5	100.0	106.2	111.0	117.2
Set net and beach seine fisheries	72.2	100.0	81.0	89.2	63.7
Marine cultures	98.7	100.0	109.4	116.3	128.6
Costal fisheries and marine cultures	84.6	100.0	103.6	109.6	113.3
Inland water fisheries and inland water cultures	87.0	100.0	108.4	113.0	125.0
Whalings	113.2	100.0	55.7	51.8	30.1

Notes : 1) This type of fisheries covers mother ship type fisheries, large trawl in Eastern China Sea, distant water trawls, tuna long line on distant water, skipjack pole-and-line on distant waters, North Pacific Ocean tanner crab fishing, North Pacific Ocean long line and gill net.

2) This type of fisheries covers fisheries operating with powered boat of more than 10 gross tonnage except for fisheries on distant waters, collecting shellfish, collecting seaweeds, set net and beach seine.

3) This type of fisheries covers fisheries operating without fishing boat, with non-powered boat, with powered boat less than 10 gross tonnage including collecting shellfish, collecting seaweeds, set net and beach seine.

4) The calculation method of the index is as follows:

(1) The items adopted amount to 125 commodities; 75 for marine fisheries, 15 for marine cultures, 10 for whaling, 14 for inland water fisheries, and 7 for inland water cultures.

(2) Formula

The index numbers are computed by the Laspeyres formula.

$$Q_{0t} = \frac{\Sigma W_0 (q_t / q_0)}{\Sigma W_0}$$

W_0 : Weights of the base period.

q_0 : Quantity of production in the base period.

q_t : Quantity of production in the current period.

(3) Weight

The weights were determined by the production value for 1974 and 1975 obtained by maltiplying quantity of production by price, and expressed as portions of 10,000.

I — 8 INDEX OF FISHERY PRODUCTION BY SPECIES, 1974~1978 (1975=100)

Item	1974	1975	1976	1976	1978
Marine Fisheries					
Bluefin tuna	121.3	100.0	102.7	127.5	114.3
Albacore	137.2	100.0	155.5	78.5	127.3
Bigeye tuna	86.4	100.0	101.2	113.1	112.5
Yellowfin tuna	99.7	100.0	119.2	115.2	136.2
Striped marlin	86.1	100.0	75.5	63.5	71.7
Brodbill swordfish	81.6	100.0	106.9	94.4	98.1
Skipjack	112.9	100.0	128.0	119.6	142.8
Sharks	94.6	100.0	104.2	117.9	99.7
Salmons	88.5	100.0	84.5	70.6	74.7
Trouts	71.7	100.0	67.2	78.7	41.8
Herring	114.5	100.0	99.2	29.8	10.1
Sardine	66.9	100.0	202.6	269.9	311.3
Anchovy	117.3	100.0	88.4	99.9	62.2
Jack mackerel	89.2	100.0	68.8	47.1	31.2
Mackerels	100.9	100.0	74.3	102.8	123.3
Saury	61.2	100.0	47.6	114.4	162.6
Yellowtail	107.0	100.0	111.6	70.2	97.6
Flounders, soles	102.2	100.0	101.1	82.5	89.9
Cod	117.4	100.0	97.9	92.3	96.4
Alaska pollack	106.7	100.0	91.3	72.1	57.7
Red sea bream	106.4	100.0	100.3	100.5	99.1
Sand lance	109.2	100.0	81.6	50.0	36.0
King crab	299.0	100.0	69.0	5.5	7.1
Common squid	88.5	100.0	79.6	62.0	68.0
Octopuses	102.3	100.0	90.4	91.8	88.5
Sea urchins	96.3	100.0	102.6	119.6	115.3
Sea cucumbers	115.3	100.0	112.8	104.4	108.1
Abalone	91.8	100.0	104.4	96.1	99.3
Kelp	75.7	100.0	100.9	84.3	69.0
Marine Cultures					
Yellowtail	100.1	100.0	110.0	124.4	131.8
"Kuruma" prawn	97.3	100.0	111.3	120.1	126.5
Oyster	104.7	100.0	112.5	105.8	115.4
Common scallop	89.1	100.0	92.4	118.4	96.4
"Nori" laver	119.5	100.0	105.4	99.3	126.7
"Wakame" seaweed	150.9	100.0	124.2	123.3	100.6
Inland Water Fisheries					
Salmons	40.3	100.0	55.1	53.3	57.0
Pond smelt	112.7	100.0	123.4	130.6	99.8
Sweet fish	88.0	100.0	95.0	96.4	95.8
Common carp	85.0	100.0	103.9	100.9	110.1
Crucian carp	94.5	100.0	102.3	104.3	108.7
Inland Water Cultures					
Rainbow trout, etc.	105.4	100.0	100.7	105.3	113.8
Sweet fish	94.4	100.0	114.7	117.7	144.0
Common carp	93.6	100.0	93.5	104.1	103.7
Eel	82.3	100.0	126.5	133.2	154.7

Ⅱ STRUCTURE OF FISHERY PRODUCTION

Ⅱ－1 NUMBER OF MARINE FISHERIES ESTABLISHMENTS, 1974～1978

Unit : Number

Type and size of management	1974	1975	1976	1977	1978
Grand Total	233,208	227,452	224,610	222,395	217,734
Without fishing boat	14,311	11,901	10,979	9,728	10,471
With non-powered boats	4,915	3,492	2,780	1,943	2,964
With powered boats					
Sub-total	146,225	147,744	149,589	151,393	147,751
Less than 3 G.T.	100,578	100,374	100,180	99,043	92,440
3 - 5	27,115	28,143	29,581	31,307	33,384
5 - 10	8,382	9,041	9,545	10,455	10,989
10 - 30	5,457	5,547	5,665	5,999	6,432
30 - 100	2,912	2,888	2,862	2,796	2,808
100 - 200	636	625	648	699	645
200 - 500	612	603	593	577	545
500 - 1,000	314	301	297	308	300
1,000 G.T. and over	219	222	218	209	208
Set nets and beach seine					
Sub-total	7,710	7,920	7,938	8,113	8,135
Large set nets	923	945	1,027	1,042	1,217
Small set nets	6,118	6,318	6,240	6,470	6,263
Beach seine	669	657	671	601	655
Culture					
Sub-total	60,047	56,395	53,324	51,218	48,413
Laver culture	35,641	31,751	28,875	26,874	24,913
Oyster culture	3,354	3,382	3,444	3,942	3,924
Pearl culture	1,849	1,833	1,824	1,883	1,755
Wakame seaweed culture ...	9,788	9,248	8,780	8,116	6,870
Yellowtail culture	2,710	2,873	3,185	3,682	3,473
Common scallop culture ...	4,091	4,440	3,987	3,316	3,496
Other cultures	2,614	2,868	3,229	3,405	3,982

Note : Excluding the number of fisheries establishments which engaged in fishing for less than 30 days in a year.

Ⅱ－2 NUMBER OF MARINE FISHERY WORKERS, 1974～1978

Unit : Thousand men

	1974	1975	1976	1977	1978
Grand Total	496.9	477.5	469.7	459.3	478.1
Men	412.6	397.6	389.0	379.1	398.0
15 - 39 years old	155.3	143.3	135.9	126.9	134.5
40 - 59 years old	189.4	186.7	186.8	186.9	199.6
60 years old and over	69.9	67.5	66.2	65.3	63.9
Women	84.3	80.0	80.7	80.2	80.1

Ⅱ — 3 NUMBER OF FISHING BOATS, 1974～1978

Unit : Number

Size	1974	1975	1976	1977	1978
Total	394,333	414,745	424,391	434,193	435,784
Marine	372,151	390,480	399,156	408,851	412,423
Non-powered	57,673	44,601	40,046	35,785	29,866
Powered	314,478	345,879	359,110	373,066	382,557
Less than 5 G.T.	285,695	316,685	328,800	341,068	349,044
5 - 9	10,733	11,295	12,159	13,267	14,138
10 - 49	10,809	10,656	10,915	11,406	12,171
50 - 99	4,045	4,022	4,043	4,058	3,916
100 - 199	1,253	1,279	1,303	1,350	1,398
200 - 499	1,633	1,652	1,624	1,664	1,647
500 - 999	95	90	85	77	76
1,000 G.T. and over	215	202	181	176	167
Inland Water	22,182	24,265	25,235	25,342	23,361
Non-powered	14,050	8,659	8,714	8,624	7,324
Powered	8,152	15,606	16,521	16,718	16,037
Less than 5 G.T.	8,149	15,602	16,514	16,709	16,025
5 G.T. and over	3	4	7	9	12
Number of F.R.P. Boats in Marine Total	46,239	70,915	92,301	117,121	142,729
Less than 1 G.T.	17,427	27,463	34,635	41,844	48,766
1 - 3	17,693	27,533	36,127	46,612	57,450
3 - 5	9,148	12,730	16,962	21,917	27,522
5 - 10	1,090	1,763	2,743	4,073	5,350
10 - 20	730	1,047	1,590	2,360	3,268
20 G.T. and over	151	195	244	315	373

Ⅱ — 4 GROSS TONNAGES OF FISHING BOATS, 1974～1978

Unit : G. T.

Size	1974	1975	1976	1977	1978
Total	2,701,885	2,706,233	2,668,452	2,719,646	2,687,825
Marine	2,686,070	2,688,002	2,649,615	2,699,877	2,668,772
Non-powered	44,729	36,679	32,624	30,318	27,128
Powered	2,641,340	2,651,323	2,616,991	2,669,559	2,641,644
Less than 5 G.T.	492,536	525,844	549,044	575,815	599,754
5 - 9	83,522	87,408	94,641	103,887	111,423
10 - 49	232,376	225,531	225,896	230,283	239,636
50 - 99	323,648	321,114	321,272	321,244	305,447
100 - 199	182,287	184,944	186,573	192,272	199,491
200 - 499	520,698	539,175	522,037	547,175	544,401
500 - 999	71,339	68,294	64,717	59,215	58,869
1,000 G.T. and over	734,934	699,012	652,811	639,667	582,624
Inland Water	15,805	18,230	18,837	19,769	19,052
Non-powered	7,076	4,765	4,487	4,400	3,710
Powered	8,739	13,465	14,350	15,369	15,342
Less than 5 G.T.	8,712	13,433	14,290	15,297	15,252
5 G.T. and over	27	32	60	72	90
Gross Tonnages of F.R.P. Boats in Marine Total	108,454.71	159,674.60	216,235.09	287,040.60	362,860
Less than 1 G.T.	12,660.90	19,426.23	24,709.70	29,770.95	34,814
1 - 3	28,861.24	44,413.85	58,873.90	76,724.60	95,199
3 - 5	39,424.95	55,422.72	73,734.64	95,431.18	119,981
5 - 10	8,570.45	13,618.23	21,220.77	31,926.52	42,467
10 - 20	11,355.92	16,375.40	24,543.51	36,304.94	50,203
20 G.T. and over	7,581.25	10,418.17	13,152.57	16,882.41	20,197

III MARKETING OF FISHERY PRODUCT

III -- 1 QUANTITY AND PRICE OF LANDINGS BY COMMODITY AT FISH MARKETS IN PRODUCING AREAS, 1978

Commodity	Quantity of landings	Price
Total of fishes, other marine animals, marine mammals and whales	5,642,726	134
Bluefin tuna		
Fresh	14,817	639
Frozen, round type	28,138	1,879
Frozen, fillet type	1,446	1,152
Albacore		
Fresh	21,661	340
Frozen, round type	59,207	292
Frozen, fillet type	172	-
Bigeye tuna		
Fresh	17,899	1,044
Frozen, round type	84,254	719
Frozen, fillet type	152	554
Yellowfin tune		
Fresh	34,527	457
Frozen, round type	37,521	479
Frozen, fillet type	172	417
Other tunas		
Fresh	10,904	372
Frozen	6,781	184
Striped marlin		
Fresh	4,190	559
Frozen, round type	6,894	612
Frozen, fillet type	20	588
Broadbill swordfish		
Fresh	10,594	552
Frozen, round type	1,387	595
Frozen, fillet type	4,702	654
Black marlins		
Fresh	3,864	499
Frozen, round type	6,975	514
Frozen, fillet type	69	394
Other swordfish, marlins and sailfish		
Fresh	1,752	665
Frozen, round type	805	391
Frozen, fillet type	873	302
Skipjack		
Fresh	78,261	242
Frozen	173,247	181
Salmons		
Fresh	12,096	1,093
Frozen	4,442	1,552
Salted	11,485	1,744
Salmons (Pink and cherry salmons)		
Fresh	3,350	704
Frozen	3,236	659
Salted	1,074	718
Sardine	1,024,204	18
Round herring	23,746	66
Jack mackerel	31,986	573
Scads	88,674	143
Mackerels	1,382,623	30
Saury	291,894	100
Common squid		
Fresh	39,353	497
Frozen	81,375	444
Bastard halibut	3,186	1,248
Flounders, soles		
Fresh	62,946	303
Frozen	61,938	194
Cod		
Fresh	23,003	196
Frozen	32,828	220
Alaska pollack		
Fresh	627,024	67
Frozen	32,143	139
Atka mackerel	82,330	36
"Menuke" Rockfishes		
Fresh	5,065	473
Frozen	16,008	316
"Kichiji" Rockfishes	9,274	444
Sand fish	4,617	325
Deep sea smelts	5,023	137
Sharks		
Fresh	29,539	100
Frozen	3,677	226
Yellow croaker	3,267	92
Other croakers	30,678	175
Lizard fishes	14,019	133
Butter fish	3,686	469
Sharp toothed eel	15,624	230
Hairtail	19,088	143
Gurnards	1,475	344
Skates and rays	8,904	115
Rod sea bream	5,204	1,748
Crimson sea bream	1,146	1,118
Yellow sea bream	6,946	1,039
Black sea bream	444	1,184
Other sea breams		
Frozen	8,120	207
Yellowtails	23,358	759
Spanish mackerels		
Fresh	13,124	257
Frozen	3,305	329

Notes: 1) The quantity of landings is of the 67 fishing ports in the producing areas.
2) The prices here show the average prices per Kg, which are obtained by dividing the value of landings by the quantities of landings.

Unit { Quantity: Metric tons / Price: yen per Kg

Commodity	Quantity of landings	Price
Dolphin fishes	6 388	167
Flying fishes	1 215	255
Frigate mackerel	7 395	164
Mallets	650	360
Common sea bass	875	992
Herring		
Fresh	3 476	245
Frozen	2 248	223
Sand lance	60 992	55
Anchovy	18 162	71
Post larval	841	675
Other fishes		
Fresh	325 020	179
Frozen	86 612	302
Salted	29	1 269
Cuttlefishes		
Fresh	7 908	346
Frozen	2 130	-
Other squids and cuttlefishes	204 188	324
Octopuses		
Fresh	9 780	260
Frozen	10 055	141
Spiny lobster	87	4 600
"Kuruma" prawn	309	3 029
Other lobster, prawn and shrimps		
Fresh	10 825	811
Frozen	622	2 396
King crab	23	522
Tanner crab	4 659	1 171
Blue crabs	839	804
Other crabs	36 324	200
Sea urchins		
With shells	170	757
Shelled	202	7 577
Sea cucumbers	656	463
Other marine animals		
Fresh	30 577	88
Frozen	2 255	246
Marine mammals	277	145
Whale (by whaling)		
Fresh	5	1 048
Frozen	11 161	-
Salted	-	-

Commodity	Quantity of landings	Price
Total of shellfishes		
With shell	22 618	295
Shelled	2 362	796
Abalones with shell	223	2 907
Top shell with shell	914	815
Hard clams		
With shell	28	520
Short-necked clams		
With shell	471	215
Common scallop		
With shell	15 935	219
Shelled	850	809
Hen clams		
With shell	371	639
Shelled	90	2 332
"Mogai" clam		
With shell	-	-
Shelled	-	-
Oyster		
With shell	7	315
Shelled	771	824
Other shellfishes		
With shell	4 667	315
Shelled	651	555
Total of seaweeds		
Fresh	678	231
Dried	2 298	722
"Kombu" tangle		
Dried	2 227	703
"Wakame" seaweed		
Fresh	358	115
Dried	23	1 868
"Tengusa" agar-agars		
Fresh	5	524
Drid	3	507
"Funori" seaweek		
Fresh	11	970
Dried	1	1 488
Other seaweeds		
Fresh	304	351
Dried	44	1 172
Total of dried laver 1)	5 310	179
"Kuronori" laver 1)	5 310	179
"Mazenori" laver 1)	-	-
"Aonori" laver 1)	-	-

Note: 1) Quantity is expressed in unit of 10,000 sheets and price 10 sheets

Ⅲ — 2 QUANTITY AND PRICE OF ARRIVALS BY COMMODITY AT TOKYO CENTRAL WHOLESALE MARKETS, 1978

Unit { Quantity : Metric tons
Price : yen per kg

Commodity	Quantity of arrivals	Price
Fresh		
Marine fishes	180,724	728
Bluefin tuna	4,112	1,430
Albacore	603	339
Bigeye tuna	3,133	1,696
Yellowfin tuna	2,287	787
Other tunas	2,046	824
Striped marlin	575	1,163
Broadbill swordfish	1,838	725
Blue marlins	559	559
Other marline	64	487
Skipjacks	12,624	404
Salmons	1,155	958
Salmons (Pink and cherry salmons)	680	741
Sardine	10,187	119
Round herring	24	114
Jack mackerel	10,314	944
Mackerels	16,580	157
Saury	10,292	496
Common squid	9,373	711
Bastard halibut	663	1,687
Flat fishes	9,210	739
Cod	2,788	408
Atka mackerel	1,862	83
Rock fishes	3,586	747
Sharks	3,598	219
Yellow croaker	-	-
Other croakers	1,237	303
Sharp toothed eel	209	652
Hairtail	438	620
Red sea bream	1,077	1,565
Crimson sea bream	256	1,711
Yellow sea bream	98	1,056
Yellowtail	18,258	992
Fishery	6,397	851
Culture	11,861	1,068
Spanish mackerels	1,881	724
Flying fishes	1,133	400
Common sea bass	668	844
Other fishes	32,791	759
Cuttlefish	1,499	816
Other squids and cuttlefishes	3,205	575
Octopuses	626	515
Spiny lobstor	87	6,118
"Kurumaebi" prawn	94	5,665
"Taisho ebi" prawn	679	1,861
Other shrimps	3,372	1,852
Crabs	2,659	797
Other marine animals	2,304	3,101
Inland water fishes	4,176	1,377
Shellfishes	47,317	778
Abalones with shell	1,356	2,948
Short necked clam with shell	4,547	240
Oyster shelled	4,053	943
Freshwater clam with shell	5,444	148
Other shellfishes	31,917	849
Frozen		
Bluefin tuna	16,905	1,894
Albacore	2,549	365
Bigeye tuna	51,715	792
Yellowfin tuna	8,241	537
Other tunas	-	-
Striped marlin	2,732	862
Bradbill swordfish	5,621	739
Blue marlins	721	579
Other marlins	336	569
Skipjack	550	311
Salmons	24,151	1,317
Salmons (Pink and cherry salmons)	3,998	747
Jack mackerel	9,784	260
Mackerels	5,455	117
Saury	5,740	381
Common squid	18,807	559
Flat fishes	13,756	501
Cod	7,786	226
Rock fishes	3,204	452
Sea breams	8,161	335
Spanish mackerels	1,467	182
Herring	10,825	378
Other fishes	84,651	789
"Mongo-ika" cuttlefish ...	21,837	706
Other cuttlefishes	11,749	483
Octopuses	17,220	466
"Taisho ebi" prawn	907	1,935
Meat of whale		
Fresh	240	1,027
Frozen	2,513	904
Processed fishery product		
Salted and dried		
Sardine, round herring ..	10,934	239
Jack mackerel, scad	11,959	533
Mackerels	3,651	184
Saury	7,041	368
Salted		
Salmons	21,887	1,386
Salmons(Pink and cherry salmons)	6,012	690
Mackerels	444	336
Other salted product	22,305	2,290
Processed whale products	567	897
Seaweeds	5,345	327
Other processed fishers products	182,787	580

Note: The prices here show the average price which are obtained by dividing the value of arrivals by the quantities of arrivals.

Ⅲ — 3 PRICES OF MAJOR FISHERY PRODUCTS BY STEPS OF SALE DISTRIBUTION IN TOKYO, 1978

Unit : Yen per kg

commodity		Wholesale price	Broker price	Retail price	Ratio of retail price to wholesale price %
Bigeye tuna 1)	frozen	2,823	1,183	3,575	434
Yellowfin tuna 1)	frozen	501	1,109	2,476	494
Skipjack tuna 1)	fresh	389	474	1,217	313
Chum salmon 1)	salted	1,569	1,735	2,241	143
Sardine (Round fish)	fresh	120	155	316	263
Jack mackerel (Round fish)	fresh	1,087	1,295	1,689	155
Mackerel (Round fish)	fresh	184	225	339	184
	frozen	123	162	283	230
Saury (Round fish)	fresh	514	644	1,121	218
	frozen	763	951	1,377	180
Yellowtails 1)	fishery	868	953	1,946	224
	cultured	1,076	1,193	2,743	255
Common squid (Round fish)	fresh	771	883	1,248	162
	frozen	622	705	914	147
Oyster (Without shell)	fresh	1,043	1,178	1,840	176

Note : 1) Round fish for wholesale and broker price and sliced meat for retail price.

Ⅲ－4 PROCESSED FISHERY

Proceseed products 1)	1974	1975	1976	1977	1978
Boiled and dried	81.8	79.9	84.2	86.9	82.4
Anchovies	62.5	60.9	63.9	62.5	63.2
Jack mackerel	3.7	3.2	2.9	1.9	1.7
Sand lance	7.2	7.6	9.5	11.8	7.7
Others	8.4	8.2	7.9	10.7	9.8
Cured	118.8	120.3	121.0	126.9	130.7
Mackerels	26.2	25.7	25.9	35.0	28.9
Skipjack	29.8	32.2	37.2	35.7	38.2
Others	62.9	62.4	57.9	56.2	63.6
Dried	45.8	47.7	42.7	39.9	37.5
Herring	19.2	19.9	19.2	17.4	18.9
Squids	8.7	12.2	8.6	9.4	7.6
Others	17.9	15.6	14.9	13.1	11.0
Dressed frozen	112.2	126.3	122.6	126.0	116.1
Frozen	2,965.6	2,980.6	3,111.1	3,200.1	3,153 2
Albacore, tunas	221.3	191.7	224.2	191.4	210.2
Cod, Alaska pollack	125.4	75.3	95.6	129.1	114.2
Halibut, flounders	161.2	148.3	143.1	103.0	136.2
Mackerels	286.6	299.0	336.0	414.2	518.3
Marlins	34.8	28.8	29.0	20.3	22.9
Sardines, anchovies	243.8	311.0	401.2	420.5	434.1
Saury	131.0	183.5	101.7	230.5	281.7
Skipjack	161.7	145.0	164.8	159.9	164.1
Squids, cuttlefishes	224.4	231.1	221.4	205.0	254.3
Whales	87.5	74.6	40.6	38.4	18.2
Minced fish meats	384.3	387.7	424.2	413.4	365.6
Others	903.6	904.6	929.3	874.4	633.4
Kneaded	1,148.7	1,155.0	1,136.7	1,087.0	1,037.2
"Chikuwa" 2)	250.9	258.9	235.3	214.4	190.9
Fish sausage	120.5	111.3	112.6	116.9	107.2
"Kamaboko" 3)	437.6	447.0	451.5	428.2	427.1
Others	339.7	337.8	337.3	327.5	312.0
Manure and feed	962.7	1,034.8	930.1	915.6	951.4
Fish meal	489.4	512.6	529.5	496.8	497.4
Dried press cake	271.7	317.0	208.7	257.0	299.9
Others	201.6	205.2	191.9	161.8	154.1
Oil and fat	185.9	176.6	165.6	208.2	243.5
Fish oil, fish viscera oil	143.1	136.3	141.1	187.2	230.7
Whale oil	42.8	40.3	24.5	21.0	12.8
Salted	215.5	255.5	199.7	227.5	242.7
Alaska pollack roe, cod roe	46.6	44.8	40.6	36.4	23.0
Cod, Alaska pollack	14.7	18.0	15.0	17.4	19.0
Herring roe, salmon roe	13.1	12.9	14.1	12.8	12.5
Mackerels	41.7	46.5	26.2	44.1	75.1
Salmons	55.4	73.9	55.5	53.0	61.7
Trouts	23.7	37.6	22.6	38.0	11.0
Others	20.3	21.8	25.7	25.8	40.4

PRODUCTS, 1974～1978

Unit { Thousand metric tons / Canned: Thousand cases

Processed products	1974	1975	1976	1977	1978
Salted and dried	228.6	242.7	250.9	242.1	246.0
Jack mackerel	42.2	47.5	53.3	48.7	50.2
Mackerels	32.4	29.7	35.6	26.7	28.6
Sardines, anchovies	59.7	61.6	72.6	78.2	74.8
Saury	26.7	29.7	11.2	18.4	28.1
Others	67.6	74.2	78.2	70.1	64.3
Smoked	9.7	8.3	10.3	10.0	12.1
Salmons, trouts	1.0	1.3	1.6	1.4	1.4
Squids, cuttlefishes	0.5	0.6	1.2	1.8	3.8
Whale meat	1.6	1.4	1.6	1.0	1.1
Others	6.6	5.0	5.9	5.8	5.8
Others	283.0	292.1	308.2	314.5	352.2
Canned 4)					
Standard number of cases 5)	17,316	17,192	17,707	18,771	18.810
(Actual number of cases)	(35,715)	(34,407)	(35,882)	(38,540)	(37.441)
Shellfish	981	580	698	588	521
Crabs	158	94	130	104	132
Jack mackerel	3	-	7	2	-
Mackerels	9,555	9,778	8,545	9,772	10,284
Prawns, shrimps	8	1	1	2	1
Salmons, trouts	1,089	921	1,125	825	77
Sardines, anchovies	303	422	1,630	2,107	2,367
Saury	384	510	327	449	492
Squids, cuttlefishes	80	245	185	166	168
Tunas, skipjack	3,831	3,852	4,316	3,902	4,054
Whale	694	561	503	509	448
Others	230	228	240	345	266

Notes : 1) Excluding dried seaweeds.

2) Baked products of kneaded fish meat with seasonings.

3) Steamed products of kneaded fish meat with seasonings.

4) Surveyed by the Canners Association of Japan.

5) Converted to 450g x 48 cans in net weight for one case.

Ⅲ — 5 VALUE OF IMPORTS AND EXPORTS

Imports

Year	Total	Live	Fresh and frozen			Salted dried and smoked
			Shrimps	Skipjack, tunas and marlins	Others	
1970	114,628	5,851	49,329	9,070	18,698	12,478
1971	153,345	7,779	73,335	11,538	32,832	13,838
1972	190,338	12,418	89,918	10,422	36,754	22,878
1973	300,074	17,752	118,207	14,171	71,137	42,059
1974	323,240	19,862	117,571	21,684	90,242	40,052
1975	385,529	24,862	137,517	39,527	107,412	35,166
1976	563,649	30,680	223,128	46,206	150,745	58,279
1977	657,714	32,437	219,509	68,205	191,668	63,167
1978	676,455	32,132	222,528	46,963	238,577	78,434

Exports

Year	Total	Fresh and Frozen		Salted,dried and smoked		
		Skipjack, tunas and marlins	Others		Jack mackerel and mackerels	Salmons
1970	140,717	13,983	21,573	4,248	19,573	16,181
1971	146,662	13,794	25,487	4,230	23,140	18,796
1972	162,179	17,752	36,629	4,513	23,286	17,196
1973	173,494	21,632	44,688	4,745	26,259	10,419
1974	201,965	24,331	42,714	5,398	35,554	12,993
1975	168,696	3,289	38,357	5,783	35,732	15,102
1976	220,833	13,958	49,288	5,942	34,477	17,625
1977	184,180	12,906	37,389	5,877	44,423	3,723
1978	171,250	13,849	30,654	5,736	35,406	3,144

BY COMMODITY, 1970～1978

Unit: Million yen

Raw agar-agar	Fish meals	Pearls	Oil and fat	Prepared	Dried laver	Others
772	6,689	1,474	229	3,561	3,099	3,378
610	1,414	1,315	356	5,721	1,337	3,272
775	3,266	1,550	351	7,384	768	3,854
1,309	8,738	2,175	445	14,784	2,958	6,339
2,142	3,404	2,158	569	18,934	59	6,563
1,748	5,856	3,147	904	22,884	221	6,285
2,153	5,485	4,871	665	30,660	42	10,735
1,596	24,827	6,079	452	32,182	264	12,328
1,759	9,341	7,839	1,252	28,042	-	9,588

Unit: Million yen

Canned				Oil and fat		Pearls	Others
Sardines and anchovies	Tunas	Crabs	Others	Whale oil	Others		
79	28,862	2,929	5,552	2,597	1,307	14,725	9,110
99	23,016	3,966	5,218	4,681	2,431	12,599	9,205
338	27,091	1,724	5,875	1,555	1,893	14,189	10,138
712	24,440	315	5,072	1,693	3,048	17,867	12,604
834	29,119	644	5,627	3,930	11,268	17,484	12,969
1,343	27,664	454	3,646	1,959	5,481	17,679	12,207
7,536	35,932	890	4,367	1,447	7,696	22,920	19,355
8,227	25,626	581	3,784	1,412	12,059	10,296	17,877
7,951	25,007	62	3,654	522	17,665	8,818	18,782

Ⅲ－6 VALUE OF IMPORTS AND

Imports

Year	Total	U. S. A. 1	Republic of Korea 2	Taiwan 3	Canada 4	Indonesia 5	India 6
1970	114,628	8,700	14,203	9,151	1,846	3,791	5,317
1971	153,345	10,236	17,327	13,324	3,396	8,336	8,601
1972	190,338	7,570	24,623	17,322	7,310	14,992	12,358
1973	300,074	24,243	42,273	25,338	17,401	22,235	17,750
1974	323,240	16,326	62,763	28,746	14,167	24,504	17,391
1975	385,529	21,768	85,639	44,186	13,363	29,513	27,847
1976	563,649	28,441	115,752	54,625	27,547	48,431	40,984
1977	657,714	62,310	129,344	67,545	44,879	48,802	35,229
1978	676,455	104,710	100,497	66,459	53,974	47,024	36,340

Exports

Year	Total	U. S. A. 1	Netherlands 2	Nigeria 3	Taiwan 4	Hong Kong 5	Papua New Guinea 6
1970	140,717	41,951	4,982	34	1,830	4,123	1,177
1971	146,662	40,107	6,985	134	2,071	3,011	1,356
1972	162,179	59,753	4,992	507	2,996	4,053	1,478
1973	173,494	61,664	4,088	386	5,939	4,662	2,325
1974	201,965	62,373	14,400	1,176	5,841	4,378	3,157
1975	168,696	38,142	9,935	3,851	8,363	5,290	2,697
1976	220,833	57,042	11,972	4,718	11,969	7,403	4,623
1977	184,180	39,447	14,171	11,117	9,500	7,636	4,709
1978	171,250	33,574	18,813	14,785	11,266	7,833	6,368

EXPORTS BY COUNTRY, 1970～1978

Unit: Million yen

China	Spain	Australia	Thailand	Hong Kong	Mexico	U. S. S. R.	Malaysia	Others
7	8	9	10	11	12	13	14	15
10,815	2,519	5,779	5,651	3,819	7,355	3,238	2,766	29,678
11,049	9,332	7,206	7,902	5,651	7,856	2,936	5,063	35,130
15,261	8,763	8,516	10,295	5,485	7,102	2,481	6,158	42,102
20,824	9,444	10,795	14,082	5,879	12,323	6,067	8,122	63,298
29,020	17,872	11,179	12,901	7,069	7,075	10,307	5,827	58,093
22,651	19,655	11,235	20,934	8,743	7,891	8,383	6,236	57,385
24,750	27,844	21,160	28,846	15,257	13,516	10,947	15,122	90,427
19,962	19,754	25,496	23,733	18,981	10,213	14,662	15,647	121,157
32,489	24,701	24,328	24,305	16,530	14,877	13,978	11,537	104,706

Unit: Million yen

Canada	United Kingdom	Australia	Singapore	Saudi Arabia	Philippines	S. Africa	Switzerland	Others
7	8	9	10	11	12	13	14	15
3,932	16,835	5,322	5,220	192	5,760	1,311	3,735	39,247
4,833	15,763	4,971	2,834	146	6,549	1,428	3,507	47,216
5,963	12,622	4,741	2,328	373	5,200	1,175	4,553	44,662
7,437	10,520	5,363	3,463	902	5,301	1,973	6,146	46,826
7,151	10,983	8,383	3,618	1,406	8,316	3,091	4,729	57,764
6,843	12,354	5,227	5,428	1,713	7,770	2,881	4,668	48,939
8,831	14,877	8,747	3,798	2,287	8,300	4,097	6,204	59,030
6,033	4,850	5,862	4,763	4,491	5,897	3,989	3,864	62,150
5,766	5,056	3,985	3,920	3,300	3,179	2,979	2,583	47,843

Ⅲ — 7 VALUE OF IMPORTS AND EXPORTS (by Country, and by Commodity)

Imports

Country of origin	Total	Live	Fresh and frozen			Salted, dried and smoked
			Shrimps	Skipjack, tunas and marlins	Others	
Total	676,455	32,132	222,528	46,963	238,577	78,434
U.S.A.	104,710	331	954	873	76,919	23,653
Republic of Korea	100,497	4,130	2,781	27,290	46,522	7,007
Taiwan	66,459	24,366	7,407	15,122	9,084	590
Canada	53,974	6	390	593	17,767	34,992
Indonesia	47,024	0	43,937	266	175	1,624
India	36,340	-	36,054	-	209	2
China	32,489	2,187	18,727	-	3,476	3,277
Spain	24,701	1	193	59	24,155	53
Australia	24,328	63	18,055	62	1,755	19
Thailand	24,305	155	12,356	-	7,135	2,607
Hong Kong	16,530	284	8,771	3	7,106	99
Mexico	14,877	-	14,427	-	41	113
U.S.S.R.	13,978	0	384	-	10,834	144
Malaysia	11,537	0	8,627	-	817	1,858
Others	104,706	609	49,465	2,695	32,582	2,396

Exports

Country of destination	Total	Fresh and frozen products		Salted dried and smoked		
		Skipjack, tunas and marlins	Others		Jack mackerel and mackerels	Salmons
Total	171,250	13,849	30,654	5,736	35,406	3,144
U.S.A.	33,574	5,093	11,379	972	190	2
Netherland	18,813	2	536	22	189	222
Nigeria	14,785	-	-	1	13,960	10
Taiwan	11,266	2	217	1,451	-	5
Hong Kong	7,833	107	45	2,065	45	2
Papua New Guinea	6,368	2,954	99	0	3,160	1
Canada	5,766	165	472	52	49	7
United Kingdom	5,056	1	173	30	103	2,052
Australia	3,985	-	2,205	26	131	587
Singapore	3,920	97	224	366	1,350	0
Saudi Arabia	3,300	-	14	18	2,241	0
Philippines	3,179	-	-	1	1,409	-
South Africa	2,979	63	2,146	11	89	9
Switzerland	2,583	-	-	1	1	10
Others	47,843	5,365	13,144	720	12,489	237

OF FISHERY PRODUCTS, 1978

Unit: Million yen

Raw agar-agar	Fish meals	Pearls	Oil and fat	Prepared	Others
1,759	9,341	7,839	1,252	28,042	9,588
–	10	8	–	1,242	720
–	52	3	52	7,780	4,880
117	–	–	20	9,610	143
–	78	–	–	146	2
3	–	346	4	198	471
–	39	13	–	21	2
–	–	2,139	–	2,435	248
–	–	–	180	45	16
–	–	3,363	–	1,000	11
–	64	19	–	1,946	23
10	–	124	–	125	8
3	–	–	–	144	149
–	803	–	566	1,246	1
–	–	53	–	177	5
1,626	8,295	1,771	430	1,927	2,910

Unit: Million yen

Canned products				Oil and fat		Pearls	Others
Sardines and anchovies	Tunas	Crabs	Others	Whale oil	Others		
7,951	25,007	62	3,654	522	17,665	8,818	18,782
121	9,567	9	1,368	–	194	2,304	2,375
207	89	–	3	508	16,932	19	84
803	8	–	3	–	–	–	–
–	18	–	64	7	194	12	9,296
201	26	0	70	–	1	1,583	3,688
153	0	–	1	–	–	–	–
0	3,394	1	1,458	–	11	96	61
277	2,132	–	33	–	26	137	95
77	347	26	260	–	–	82	244
1,147	3	1	20	1	–	44	667
1	970	2	15	–	–	36	3
1,679	–	–	–	1	1	–	88
37	428	–	98	–	–	18	80
13	1,514	–	2	–	–	1,023	19
3,238	6,511	23	259	5	306	3,464	2,082

Ⅲ－8 FOOD BALANCE SHEET ON

Description	1974	1975	1976	1977	1978
(FISH AND SHELLFISH) (Live weight base)					
Domestic production	10,106	9,918	9,990	10,126	10,335
For domestic consumption	9,110	8,928	8,961	9,274	9,289
Fresh and frozen	2,311	2,322	2,353	2,412	1,999
Dried, salted and smoked ..	1,660	1,709	1,734	1,830	2,040
Kneaded	2,455	2,460	2,403	2,259	2,164
Fish sausage	182	166	169	173	166
Canned	214	140	238	333	265
Feeds	2,288	2,131	2,064	2,267	2,655
For exports	996	990	1,029	852	1,046
Fresh and frozen	321	193	236	196	202
Canned	509	544	549	466	530
Others for food use	17	18	11	9	8
Feeds	149	235	233	181	306
Change in stock	...	...	...	742	Δ 82
For food use	...	...	...	441	Δ 38
For feeds	...	...	...	301	Δ 44
Imports	779	1,088	1,136	1,848	1,479
For food use	662	752	866	999	1,082
For feeds	117	336	270	849	397
Domestic supply	9,889	10,016	10,097	10,380	10,850
For food use	7,484	7,549	7,763	7,565	7,754
Domestic production	6,822	6,797	6,897	6,566	6,672
Imports	662	752	866	999	1,082
For feeds	2,405	2,467	2,334	2,815	3,096
Domestic production	2,288	2,131	2,064	1,966	2,699
Imports	117	336	270	849	397

FISHERY PRODUCTS, 1974～1978

Unit: Thousand metric tons

Description	1974	1975	1976	1977	1978
(WHALE)					
Domestic production	90	76	44	42	24
For domestic consumption	90	76	44	42	24
For exports	0	0	0	0	0
Imports	29	29	32	37	34
Domestic supply	119	105	76	79	58
For food use	119	105	76	79	58
For feeds	-	-	-	-	-
(SEAWEED) (dried weight base)					
Domestic production	140	126	133	128	128
For domestic consumption	135	122	129	123	124
For exports	5	4	4	5	4
Imports	23	25	47	48	43
Domestic supply	158	147	176	171	167
For food use	134	125	147	142	135
For feeds	24	22	29	29	32
Per capita food supply (unit : kgs)					
Fish and shellfishes	68.0	67.4	68.6	66.3	67.3
Whales	1.1	0.9	0.7	0.7	0.5
Seaweeds	1.2	1.1	1.3	1.2	1.4
Population (Unit: Million persons) 1).....	110	112	113	114	115

Note: 1) Data are based on the surveys undertaken as of October 1st of the year.

Ⅲ－9 AVERAGE CONSUMPTION IN QUANTITY OF FISHERY

1) Workers household(Cities With population of 50,000 and over)

Unit: gram

Item	1974	1975	1976	1977	1978
Fresh and frozen					
Cod, Alaska pollack	1,071	1,038	949	752	732
Flounders, halibuts	2,714	2,875	2,879	2,765	2,641
Jack mackerel	3,046	3,367	3,338	2,577	2,211
Mackerels	3,327	3,308	2,935	3,231	3,170
Salmons, trouts	1,092	1,284	1,406	1,070	992
Sardines, anchovies	2,187	2,086	2,510	3,014	2,498
Saury	2,462	2,238	1,616	1,389	2,158
Sea breams	1,120	1,110	1,123	1,041	1,100
Shellfishes	5,339	5,560	5,845	5,799	5,775
Shrimp, prawn, crab	4,554	4,490	4,046	3,671	4,131
Skipjack	1,070	1,042	1,359	1,190	1,348
Squids, cuttlefishes	6,181	6,985	6,729	6,322	6,154
Tunas, marlins	3,222	3,423	3,573	3,498	3,925
Yellowtail	2,105	2,121	2,356	2,053	2,282
Others	16,334	16,893	16,415	15,187	15,138
Processed fishery products					
Boiled and dried anchovies .	674	707	649	628	647
Canned (case)	11.12	12.77	12.87	13.10	14.33
Cured	640	637	562	530	482
Dried anchovies	776	812	869	947	853
Dried jack mackerel	1,285	1,406	1,598	1,330	1,328
Dried "Kombu" and "Wakame"kelp	1,936	2,086	2,261	2,382	2,436
Dried squids	257	266	246	206	184
Fish sausage	979	1,175	2,196	2,848	2,467
Kneaded	---	---	---	---	---
Salted salmons and trouts .	3,648	3,624	3,457	3,229	3,245
Others	---	---	---	---	---
Whale meat	1,225	976	890	772	572
Beef	7,920	8,210	8,560	8,903	9,946
Pork	19,317	18,892	19,553	20,143	20,298
Chicken	10,652	11,289	11,997	12,286	13,210
Ham, sausage	8,533	8,577	7,992	7,705	8,007
Milk, eggs	---	---	---	---	---
Seasonings	600	585	541	523	463
Expense for dining out.....	---	---	---	---	---
Number of family members ...	3.86	3.86	3.80	3.78	3.77

PRODUCTS PER HOUSEHOLD, 1974～1978

(2) Farm household

Unit: gram

Item	1974	1975	1976	1977	1978
Fishery products					
Fresh and frozen					
Cod, Alaska pollack	2,530	2,410	2,430	2,250	2,110
Flounders, halibuts	2,960	3,260	3,330	3,090	2,710
Jack mackerel	3,190	4,120	3,170	2,660	2,400
Mackerels	9,110	9,720	8,870	9,850	8,720
Salmons. trouts	---	---	---	---	---
Sardines, anchovies	4,350	5,300	6,170	7,250	5,530
Saury	4,340	4,000	2,550	2,420	3,510
Sea breams	830	740	710	850	870
Shellfishes	4,910	4,480	4,640	5,140	5,200
Shrimp. prawn. crab	2,540	2,490	2,220	2,140	2,370
Skipjack	3,440	3,310	3,590	3,630	4,160
Squids, cuttlefishes	6,100	7,760	7,350	6,960	6,710
Tunas, marlins	2,800	3,570	3,570	3,780	3,950
Yellowtail	2,060	2,090	2,390	2,230	2,390
Others	---	---	---	---	---
Processed fishery products					
Boiled and dried	2,500	2,530	2,560	2,590	2,530
Canned	3,770	4,220	4,010	4,160	3,920
Cured	330	400	390	840	850
Dried "nori"	---	---	---	---	---
Dried "kombu"and"Wakame"kelp	2,330	2,130	2,220	2,260	2,140
Dried squids	470	500	500	520	540
Fish sausage	3,640	3,320	3,190	2,460	1,650
Kneaded	12,920	12,500	12,000	11,380	10,650
Salted salmons and trouts	4,150	4,030	3,990	3,590	3,260
Others	---	---	---	---	---
Whale meat	1,580	1,240	1,160	---	---
Beef	3,610	4,050	4,100	4,640	5,090
Pork	13,760	13,770	13,650	14,170	14,540
Chicken	9,880	10,390	10,810	11,580	11,890
Ham, sausage	3,920	4,170	4,680	6,780	6,360
Milk, eggs	---	---	---	---	---
Seasonings	1,160	1,040	1,010	1,130	1,100
Expense for dining out .	---	---	---	---	---
Number of family members	4.59	4.56	4.52	4.49	4.48

Ⅲ－10 AVERAGE CONSUMPTION IN VALUE OF FISHERY

(1) Workers household (Cities With population of 50,000 and over)

Unit: yen

Item	1974	1975	1976	1977	1978
Net income	2,511,588	2,834,364	3,121,176	3,418,882	3,672,987
Food expense	588,322	666,350	732,876	775,067	807,652
Fishery products	89,989	103,432	114,666	122,292	128,373
Fresh and frozen	46,608	54,806	61,095	64,096	67,118
Cod, Alaska pollack	549	582	605	497	512
Flounders, halibuts	1,977	2,318	2,625	2,870	2,995
Jack mackerel	2,085	2,460	2,956	2,814	2,495
Mackerels	1,119	1,171	1,202	1,480	1,357
Salmons, trouts	1,080	1,345	1,616	1,458	1,415
Sardines, anchovies	793	741	917	1,153	916
Saury	1,076	1,275	1,168	1,369	1,692
Sea breams	1,381	1,634	1,828	1,862	2,114
Shellfishes	3,143	3,864	4,573	5,173	5,332
Shrimp, prawn, crab	6,077	6,819	7,129	7,297	8,305
Skipjack	1,154	1,283	1,719	1,774	1,784
Squids, cuttlefishes	4,639	5,670	6,038	6,529	6,608
Tunas, marlins	5,436	6,740	7,625	8,130	8,790
Yellowtail	3,218	3,860	4,598	4,497	4,974
Others	12,881	15,044	16,496	17,192	17,829
Processed fishery products	42,334	47,603	52,521	57,169	60,420
Boiled and dried anchovies	619	743	758	754	810
Canned	1,799	2,139	2,261	2,544	2,716
Cured	1,207	1,367	1,363	1,447	1,415
Dried "nori"	4,364	4,372	4,608	4,633	5,067
Dried "Kombu" and "Wakame" kelp	2,008	2,164	2,312	2,299	2,285
Dried squids	512	585	602	583	578
Fish sausage	438	594	1,311	1,941	1,709
Kneaded	8,233	9,083	9,693	10,596	11,345
Salted salmons and trouts	4,773	5,259	5,501	6,016	6,634
Others	18,381	21,277	24,112	25,356	27,861
Whale meat	1,047	1,023	1,050	1,027	835
Beef	17,035	19,880	23,304	24,627	27,675
Pork	22,078	26,316	29,612	29,643	29,429
Chicken	10,188	11,726	13,479	13,767	13,529
Ham, sausage	9,846	11,267	11,710	11,967	12,619
Milk, eggs	37,866	41,409	42,031	43,079	41,543
Seasonings	1,085	1,114	1,105	1,070	998
Expense for dining out	70,143	81,235	93,208	103,909	114,408
Number of family members	3.86	3.86	3.80	3.78	3.77

PRODUCTS PER HOUSEHOLD, 1974~1978

(2) Farm household

Unit: yen

Item	1974	1975	1976	1977	1978
Net income	2,945,900	3,414,400	3,662,000	3,984,500	4,221,100
Food expense	599,700	687,400	747,600	798,400	828,500
Fishery products	89,216	99,068	110,073	120,725	123,342
Fresh and frozen	45,342	52,132	59,209	68,089	70,689
Cod, Alaska pollack	989	1,100	1,234	1,421	1,416
Flounders, halibuts	1,754	2,172	2,561	2,901	2,832
Jack mackerel	1,558	2,225	2,316	2,348	2,336
Mackerels	2,585	2,887	3,172	3,862	3,257
Salmons, trouts	---	---	---	---	---
Sardines, anchovies	1,270	1,430	1,762	2,096	1,558
Saury	1,559	1,743	1,434	1,765	2,336
Sea breams	1,136	1,143	1,350	1,792	1,841
Shellfishes	1,722	1,852	2,107	2,729	3,009
Shrimp, prawn, crab.....	3,020	3,332	3,508	4,007	4,602
Skipjack	2,168	2,479	2,891	3,493	3,611
Squids, cuttlefishes	4,028	5,662	6,271	6,841	6,933
Tunas, marlins	5,073	6,563	7,730	8,801	9,416
Yellowtail	2,630	3,342	4,154	4,164	4,744
Others	15,850	16,202	18,719	21,869	22,798
Processed fishery products..	42,650	45,790	49,623	52,636	52,653
Boiled and dried	2,157	2,480	2,751	2,981	3,131
Canned	1,808	2,152	2,157	2,686	2,502
Cured	687	909	965	1,718	1,838
Dried "nori"	4,282	4,455	4,333	4,601	4,928
Dried "Kombu"and"Wakame"kelp	2,746	2,867	3,088	3,211	3,203
Dried squids	1,073	1,251	1,426	1,511	1,735
Fish sausage	1,760	1,835	1,838	1,486	998
Kneaded	7,639	8,220	8,783	8,898	9,498
Salted salmons and trouts.	4,663	4,947	5,304	5,872	5,734
Others	15,835	16,674	19,008	19,672	19,086
Whale meat	1,224	1,146	1,241	---	---
Beef	7,613	9,315	10,813	12,145	13,860
Pork	14,470	17,098	18,966	20,384	21,231
Chicken	7,724	9,289	10,450	11,424	11,988
Ham, sausage	4,265	5,177	6,204	7,845	8,253
Milk, eggs	37,096	37,687	37,686	39,342	37,428
Seasonings	1,832	1,797	1,821	2,042	2,120
Expense for dining out.....	37,207	41,876	45,384	51,832	61,310
Number of family members ..	4.59	4.56	4.52	4.49	4.48

Ⅳ ECONOMY OF FISHERY MANAGEMENT UNIT

Ⅳ－1 NATIONAL AVERAGE OF FISHERIES HOUSEHOLD ECONOMY, 1974～1978

Items	Unit	1974	1975	1976	1977	1978
Number of family members	Person	4.6	4.5	4.5	4.5	4.3
Number of non-powered fishing boats used	Boat	0.3	0.3	0.3	0.3	0.3
Number of powered fishing boats used.	"	1.0	1.2	1.0	1.0	1.0
Tonnage of powered fishing boats used.	Ton	2.2	2.3	2.4	2.5	2.6
Number of fishing days	Day	143	145	146	148	151
Number of workers on the sea	Person	446	460	457	468	478
Working hours on the sea	Hours	2,511	2,551	2,589	2,591	2,552
Catches	kg	9,029	9,423	9,688	10,871	11,388
Price of fish cought	Yen/kg	283	322	369	386	365
Fishery earning	1000 yen	2,631.1	3,142.7	3,675.4	4,195.0	4,158.9
Non-fishery earning	"	290.7	348.4	378.4	484.7	503.6
Non-business earning	"	1,055.7	1,251.7	1,377.5	1,532.7	1,641.7
Fishery expenditure	"	1,158.0	1,337.2	1,611.4	1,874.0	1,895.6
Employees wages	"	261.2	289.3	347.4	436.0	417.9
Maintenance of fishing boats	"	103.6	118.5	138.0	163.5	158.1
Expenditure for fishing gears	"	138.1	145.5	164.5	198.2	183.1
Oil	"	151.8	185.3	217.5	249.7	254.3
Miscellaneous facilities	"	12.7	16.5	20.9	23.1	18.9
Depreciation	"	214.4	245.6	332.8	360.4	413.1
Non-fishery business expenditure	"	140.9	154.5	189.1	243.1	284.5
Non-business expenditure	"	58.5	69.6	78.2	93.7	114.4
Household expenditure	"	1,730.9	2,000.2	2,301.9	2,552.5	2,722.4
Taxes, public charges and obligation.	"	172.8	197.6	254.4	331.8	389.9
Income of fishery household	"	2,619.9	3,181.4	3,552.8	4,001.5	4,009.7
Business income	"	1,622.8	1,999.3	2,253.5	2,562.6	2,482.4
Fishery income	"	1,473.0	1,805.4	2,064.1	2,321.0	2,263.3
Non-fishery income	"	149.8	193.9	189.4	241.6	219.1
Non-business income	"	997.1	1,182.1	1,299.3	1,438.9	1,527.3
Surplus of fishery household economy.	"	716.3	983.6	996.4	1,117.2	897.4
Property						
Fixed assets	"	3,719.6	4,197.7	6,196.5	6,721.6	6,980.3
Land	"	431.8	420.8	1,603.8	665.6	638.9
Building	"	2,033.5	2,315.7	3,592.4	3,810.2	3,561.1
Hull of fishing boats	"	431.8	501.2	708.7	762.0	966.0
Engines of fishing boats	"	411.9	480.7	656.1	738.6	896.7
Fishing nets and long lines	"	144.0	163.1	209.0	225.8	246.4
Non-fixed assets	"	2,662.3	3,334.1	4,090.7	5,015.5	5,614.4
Debts	"	824.7	995.6	1,119.4	1,256.1	1,624.5

Notes: 1) Fishery household in this table refers to the household engaging in fishing with less than 10 tons fishing boat. The data show the average per fishery household.
2) Income of fishery household = Fishery income + Non-fishery business income + Non-business income. Surplus of fishery household economy = Income of fishery household - (Taxes, public charges and obligations + household expenditure)
3) Duration of this statistics is for a calendar year. Property is accounted at the beginning of the year.

Ⅳ－2 NATIONAL AVERAGE OF SMALL AND MIDDLE SIZE FISHERY ENTERPRISE ECONOMY, 1974～1978

Item 1), 2)	Unit	1974	1975	1976	1977	1978
Gross tonnage of fishing boats used	Ton	104.67	101.36	99.89	98.84	94.81
Number of workers on the boat	Person	17	16	16	16	15
Earnings from fishery	1000 yen	90,248	101,261	118,634	135,329	121,128
Fishery expenditures	"	89,533	99,678	111,520	126,702	120,538
Employees wages	"	35,777	37,992	44,574	51,404	47,080
Maintenance of fishing boats ..	"	7,153	8,040	8,719	9,354	9,257
Expenditure for fishing gears .	"	4,247	4,577	4,596	4,736	4,355
Oil	"	10,685	14,036	15,349	15,408	13,986
Bait	"	2,626	3,010	3,437	4,015	4,165
Ice	"	983	1,095	1,222	1,346	1,386
Fish container	"	2,152	1,931	1,837	1,692	1,534
Miscellaneous materials	"	960	1,140	1,241	1,368	1,512
Miscellaneous facilities	"	196	169	273	292	220
Rents and charge	"	1,472	1,627	1,866	2,314	2,373
Brokerage	"	3,675	4,217	4,964	5,787	5,082
Costs for business	"	4,283	4,693	5,088	6,189	6,467
Tax upon fishery business	"	616	509	591	744	1,008
Other	"	3,804	4,016	4,157	5,786	5,558
Depreciation	"	12,904	12,626	13,606	16,268	16,555
Estimated family wages	"	909	935	1,074	1,214	1,343
Fishery profit 3)	"	Δ 194	648	6,040	7,413	Δ 753
Assets (final)	"	111,577	119,959	127,017	149,556	159,038
Fixed assets	"	65,256	67,503	70,694	76,727	81,428
Fixed assets for fishery	"	41,540	46,378	47,722	52,680	51,770
Non-fixed assets	"	46,321	52,456	56,368	72,829	77,610
Liabilities (final)	"	101,987	112,055	115,109	134,144	143,463
Net worth	"	9,610	7,904	11,908	15,412	15,575
Net profit	"	Δ 816	Δ 586	3,927	5,483	2,437
Interest on liabilities	"	5,593	6,662	6,666	6,361	6,196
Sales profit 4)	%	Δ 0.2	0.6	5.1	5.5	Δ 0.6
Costs for physical expenditure ...	1000 yen	53,307	54,301	66,362	59,235	57,824
Added value	"	45,124	51,200	64,657	76,094	63,304
Added value per worker	"	2,654	3,200	4,041	4,756	4,192
Wage per worker	"	1,717	2,375	2,786	3,213	2,705
Capital equipment ratio 5)	"	2,963	3,471	3,490	3,665	4,089
Ratio of net worth out of total capital	%	8.6	6.6	9.4	10.3	9.8
Ratio of profit out of total capital	"	Δ 0.8	Δ 0.5	3.2	4.0	1.6

Notes: 1) Small and middle size fishery enterprise refers to the enterprise engaging in fishery with fishing boats of 10 gross tonnage and over but excluding the big enterprises with capital paid of 100 million yen and over.
2) Data show an average per fishery enterprise.
3) Fishery profit = Earnings from fishery - fishery expenditures - estimated family wages.
4) Sales profit = Fishery profit ÷ earnings from fishery x 100.
5) Capital equipment ratio means fixed assets for fishery per worker engaged normally in fisheries.

REFERENCE TABLES

1 CATCH BY COUNTRY OF THE WORLD, 1974～1978

Unit: Thousand metric tons

Country	1974	1975	1976	1977	1978
Total	68,895	68,608	72,113	71,213	72,380
Japan	10,805	10,524	10,662	10,733	10,752
U.S.S.R.	9,236	9,936	10,134	9,352	8,930
China	4,400	4,500	4,600	4,700	4,660
U.S.A.	2,929	2,898	3,175	3,102	3,512
Peru	4,145	3,447	4,343	2,530	3,365
Norway	2,645	2,550	3,435	3,562	2,647
India	2,255	2,328	2,400	2,540	2,368
Republic of Korea	2,023	2,133	2,405	2,419	2,351
Thailand	1,516	1,553	1,660	1,778	2,264
Denmark	1,835	1,767	1,911	1,807	1,745
Chile	1,158	929	1,406	1,285	1,698
Indonesia	1,336	1,390	1,483	1,545	1,655
Korea D.P.R.P.	1,400	1,500	1,600	1,600	1,600
Iceland	945	995	986	1,374	1,579
Philippin	1,371	1,443	1,393	1,511	1,558
Canada	1,037	1,021	1,132	1,280	1,407
Spain	1,510	1,515	1,475	1,455	1,380
Viet Nam	1,014	1,014	1,014	1,014	1,014
Brazil	740	772	708	790	858
France	808	806	806	760	796
Mexico	442	499	572	670	752
Bangladesh	822	823	826	835	640
South Africa	650	637	638	603	628
Poland	679	801	750	665	571
Peninsular Malaysia	442	377	412	499	566
England and Wales	534	497	520	525	548
Burma	434	485	502	519	541
Argentina	296	229	281	392	537
Nigeria	473	478	495	506	519
Scotland	538	468	503	452	479
Ecuador	174	263	815	476	476

2 CATCH BY SPECIES OF THE WORLD, 1974～1978

Unit: Thousand metric tons

	1974	1975	1976	1977	1978
Total	68,895	68,608	72,113	71,213	72,380
Carps, barbels and other cyprinids	519	563	559	583	561
Tilapias and other cichlids.....	230	286	301	352	362
Miscellaneous freshwater fishes...	5,258	5,560	5,329	5,385	5,177
Sturgeons, padolefishes, etc.	25	27	31	32	28
River eels	55	55	67	71	97
Salmons, trouts, smelts, etc.	502	551	556	633	621
Shads, milkfishes, etc.	745	757	780	762	838
Miscellaneous diadromous fishes ..	148	149	122	86	91
Flounders, halibuts, soles, etc. .	1,176	1,145	1,123	1,082	1,212
Cods, hakes, haddocks, etc.	12,681	11,850	12,136	10,596	10,450
Redfishes, bases, congers, etc. ..	4,917	5,064	5,022	5,367	5,216
Jacks, mullets, sauries, etc.	5,353	5,854	7,253	8,718	8,175
Herrings, sardines, anchovies etc.	14,040	13,754	15,303	12,891	13,917
Tunas, bonitos, billfishes, etc. .	2,253	2,095	2,294	2,355	2,522
Mackerels,sneks,cutlassfishes,etc.		3,606	3,300	3,557	4,057
Sharks, rays, chimaeras, etc.	559	590	565	560	606
Miscellaneous marine fishes	9,643	9,382	9,781	9,989	10,047
Freshwater crustaceans	62	52	47	48	44
Sea-spiders, crabs, etc.	407	382	405	449	494
Lobsters, spiny-rock lobsters,etc.	94	95	98	96	106
Squat-lobsters, nephrops, etc. ...	64	77	105	87	86
Shrimps, prawns, etc.	1,321	1,295	1,414	1,446	1,474
Krill,plankonic crustaceans,etc. .	1	1	3	123	129
Miscellaneous marine crustaceans..	66	60	52	61	54
Freshwater molluses	46	55	125	133	224
Abalones, winkles, conchs, etc. ..	57	67	65	70	71
Oysters	739	845	904	879	900
Mussels	376	462	478	517	502
Scallops, pectens, etc.	238	284	361	405	431
Clams, cockles, arkshells, etc. ..	727	704	759	830	833
Squids,cuttlefishes,octopuses,etc.	1,074	1,175	1,179	1,195	1,285
Miscellaneous marine molluscs	184	187	168	150	138
Porpoises, dolphins, etc.	3	3	4	4	4
Miscellaneous aquatic mammals	2	2	2	2	2
Frogs and other amphibians	2	1	1	1	1
Turtles and other reptiles	7	8	7	7	5
Sea-quirts and other tunicates ...	5	8	8	7	
Horseshoe crabs and other arachnoids	0	0	0	0	0
Sea-urchins, sea-cucumbers, etc....	49	40	57	62	62
Miscellaneous aquatic invertebrates	15	19	37	90	105
Pearls,mother-of-pearl,shells,etc.	7	6	6	8	5
Corals	0	0	0	0	0
Sponges	0	0	0	0	0
Aquatic bird guano, eggs, etc. ...	25	32	4	39	34
Brown seaweeds	896	799	893	921	783
Red seaweeds	558	460	457	470	546
Green seaweeds and other algae ...	2	2	3	2	3
Miscellaneous aquatic plants	90	87	86	96	92

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